ORDER GUIDE
FAMILY FULL NAME | WATTAGE

LISTED E366167

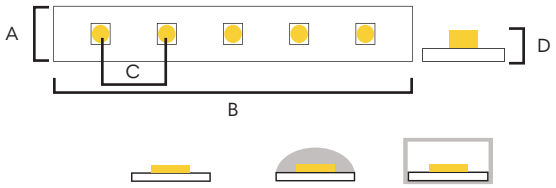
PART NUMBER BUILDER:

Series	Family	Voltage	Wattage	Environment	Kelvin	Length	Cut Point	Type	Wire In	Length	Wire Out	Length
SS	FAM	24	2.4	DRY DMP WET	22 25 27 30 32 35 41 52	RL5MT R10MT R30MT	A B	CL PL H2 BL	BE BR NA	IN	BE BR BA	IN
						SFXXX DFXXX						

Fixture Builder

Notes:
Tolerances are +/- 100%
Note
Note
Note
Note
Note

ENVIRONMENT AND DIMENSIONS



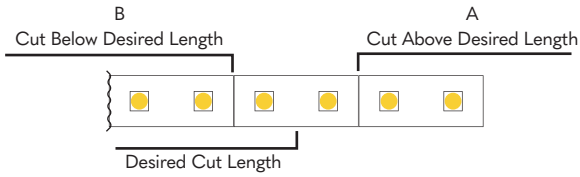
Section	Dry	Damp	Wet
A	309	93	60
B	314	96	90
C	306	95	97
D	349	98	93

LENGTH - AS A FIXTURE

Single Fed - Length in Inches - 3 digits

Double Fed - Length in Inches - 3 digits

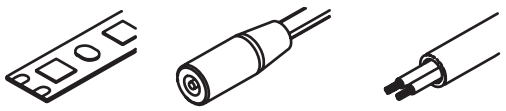
CUT POINT



KELVIN

CCT	Lumens/Ft	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
2200K	309	93	60	89	103
2500K	314	96	90	94	101
2700K	306	95	97	94	103
3000K	349	98	93	94	101
3200K	373	98	95	94	101
3500K	389	98	96	92	100
4100K	389	98	90	90	101
5200K	391	98	91	91	100

WIRE IN



Bare End | Barrel | None

WIRE OUT

Bare End | Barrel | None

LENGTH - REELS

5 Meter Reel | 10 Meter Reel | 30 Meter Reel

PROJECT | FIXTURE | PHASE | DATE

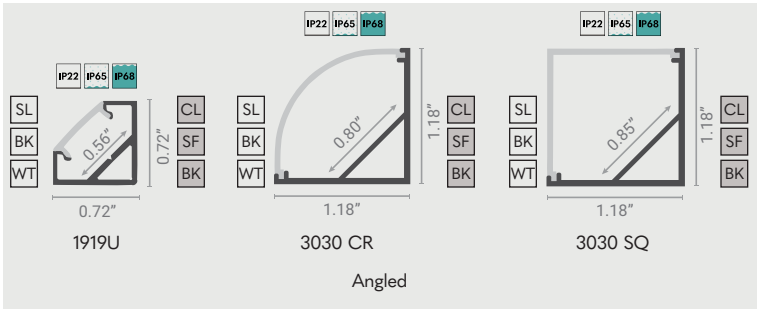
COMPATIBILITY - CHANNEL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

IP RATING
IP22 IP65 IP68

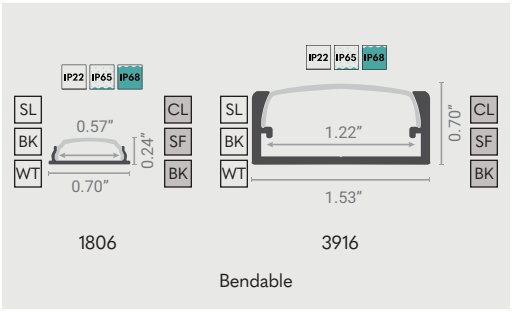
BODY COLOR
SL Silver BK Black WT White

LENS TYPE
CL Clear SF Satin BK Black



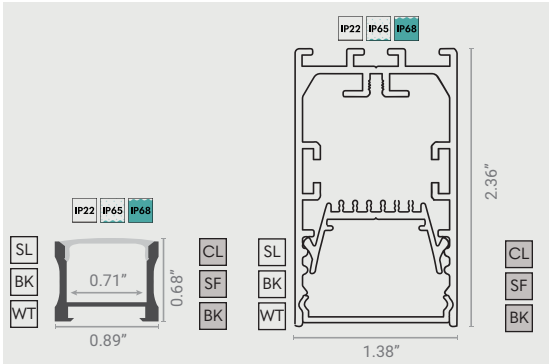
1919U | 3030 CR | 3030 SQ

Angled



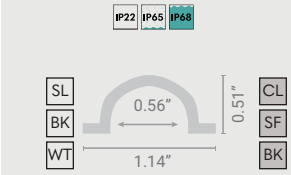
1806 | 3916

Bendable



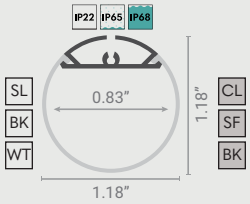
2217 | 3560

Universal



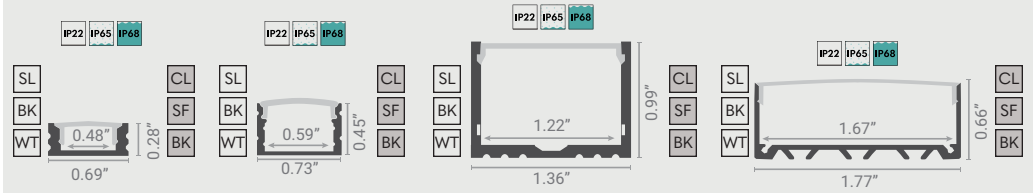
2913

Channeless



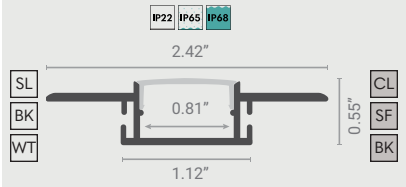
3030

Suspended



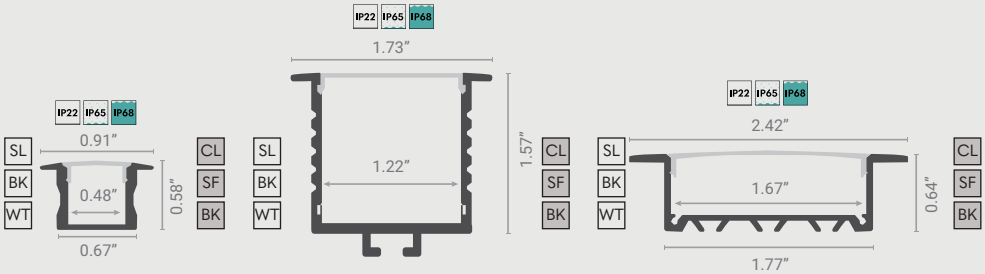
1707 | 1813 | 3525 | 4517

Surface



6214

Mud-In



2515 | 4540 | 6017

Recessed

PROJECT	FIXTURE	PHASE	DATE

COMPATIBILITY - CHANNEL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

Dotting with soft lens		DS-O-64	DS-O-128	DS-O-160	DS-O-240	DS-W-64	DS-W-128	DS-W-160	DS-W-240
Angled	1919U	2	1	1	1	x	x	x	x
	3030 SQ/CR	1	0	0	0	1	0	0	0
Bendable	1806	3	3	3	x	x	x	x	x
	3916	1	1	0	1	1	1	0	1
Mud-In	6214	1	1	1	1	2	1	1	1
Recessed	2515	1	0	0	x	x	x	x	x
	4540	0	0	0	0	0	0	0	0
	6017	1	1	0	0	1	1	0	0
Universal	2217	1	1	0	0	2	1	1	x
Suspended	3030 RN	0	0	0	0	1	0	0	0
Surface	1707	3	2	2	x	x	x	x	x
	1813	2	1	1	1	2	1	1	x
	3525	0	0	0	0	0	0	0	0
	4517	1	1	0	0	1	1	0	0
Channel-less	2913	1	0	0	0	x	x	x	x

COMPATIBILITY - POWER AND CONTROL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

Series	Y/N	Product Name	Product SKU
Static		35W Non-DIM Driver	NF-PS-35W-24V-HW
		60W Non-Dim	NF-PS-60W-24V-HW
		96W Non-DIM Driver	NF-PS-96W-24V
Dynamic	N	Universal Amplifier	NF-A-UNV
	N	40W Lutron	NF-PS-L3DA-40W-24V-KL
	N	96W Lutron	NF-PS-L3DO-96W-24V
	N	288W DIM Driver	NF-PS-MAXX-288W-24V-0/10V
	N	Mini DRGB Dimmer	NF-WC-MINI-DRGB
	N	Universal DIM Decoder (DMX and/or 0-100)	NF-DMX-5A-4CH
	N	96W DIM Driver	NF-PS-96W-24V-0/10V
	N	30W DIM Driver	NF-PS-MAXX-30W-24V-0/10V
	N	S3i Wireless Receiver	NF-S3i-WR-1009
	N	S3i Push Controller - RGB/W	NF-S3i-PB-RGB/W
	N	S3i Push Controller - Adjustable	NF-S3i-PB-AS
	N	S3i Push Controller - Static DIM	NF-S3i-PB-D
	N	S3i Handheld Controller - RGB/W	NF-S3i-WC-RGB/W
	N	S3i Handheld Controller - Adjustable	NF-S3i-WC-AS
	N	S3i Handheld Controller - Static DIM	NF-S3i-WC-D
	N	S3i Touch Panel - RGB	NF-S3i-TP-RGB
	N	S3i Touch Panel - RGB/W	NF-S3i-TP-RGBW
	N	S3i Touch Panel - Adjustable	NF-S3i-TP-AS
	N	S3i Touch Panel - Static DIM	NF-S3i-TP-D
	N	DMX to S3i Decoder for Pixel	NF-DMX-Pixel-Decoder
Universal		Universal DIM Power	NF-PS-UNV-384W-24V
		Universal DIM Power	NF-PS-UNV-288W-24V
		Universal DIM Power	NF-PS-UNV-96W-24V
		Universal DIM Power	NF-PS-UNV-80W-24V
		Universal DIM Power	NF-PS-UNV-60W-24V
		Universal DIM Power	NF-PS-UNV-30W-24V
	N	Universal Non-DIM	NF-PS-UNV-384W-24V
	N	Universal Non-DIM	NF-PS-UNV-288W-24V
	N	Universal Non-DIM	NF-PS-UNV-96W-24V
	N	Universal Non-DIM	NF-PS-UNV-80W-24V
	N	Universal Non-DIM	NF-PS-UNV-60W-24V
	N	Universal Non-DIM	NF-PS-UNV-30W-24V

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

2200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

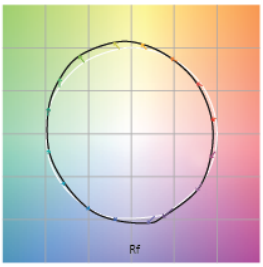
X: 0.524

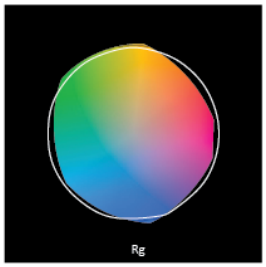
Y: 0.411

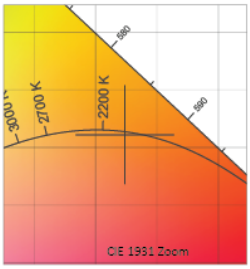
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

2500K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

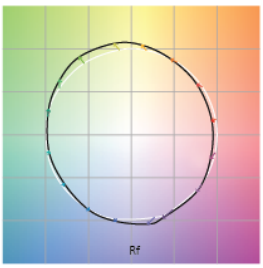
X: 0.524

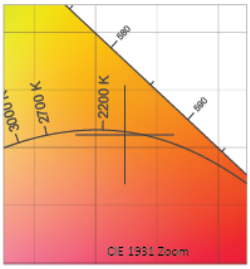
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

2700K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

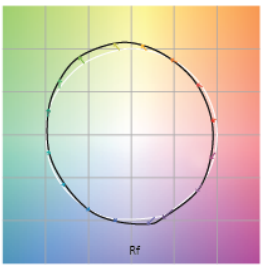
X: 0.524

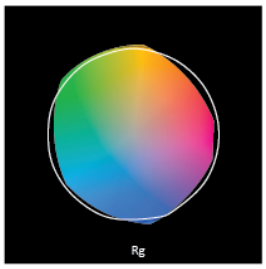
Y: 0.411

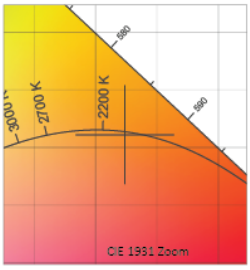
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

PROJECT | FIXTURE | PHASE | DATE

Rev: Aug.10.23.08:58

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

3000K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

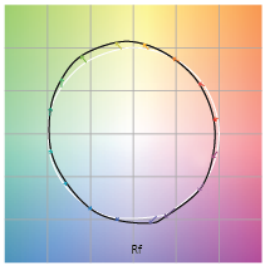
X: 0.524

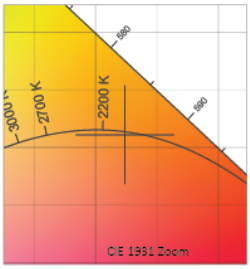
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

3200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

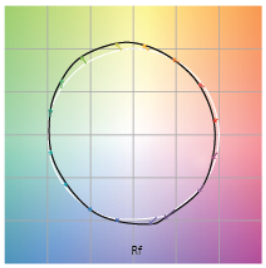
X: 0.524

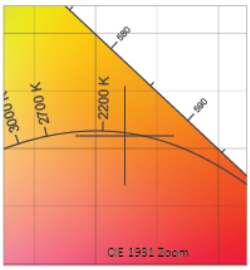
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

3500K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

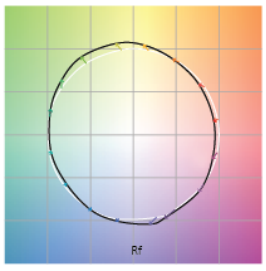
X: 0.524

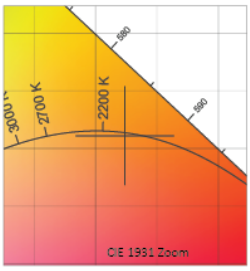
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

PROJECT | FIXTURE | PHASE | DATE

Rev: Aug.10.23.08:58

800.595.6302 | novaflexled.com

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

4100K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

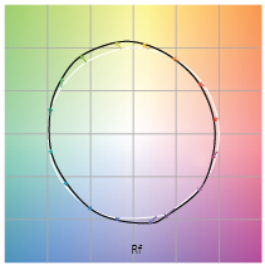
X: 0.524

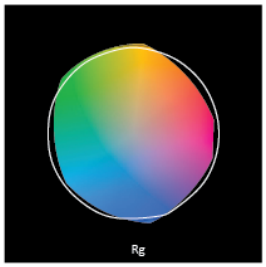
Y: 0.411

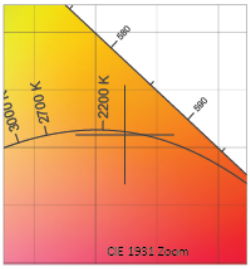
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

5200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

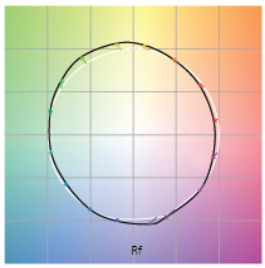
X: 0.524

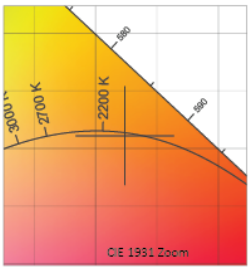
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

INSTALLING LED STRIP LIGHTING:

1. TURN POWER OFF AT CIRCUIT BREAKER

SHOCK HAZARD! Turn power OFF at circuit breaker prior to installation to avoid serious injury or death.

2. VERIFY PRODUCT IS CORRECT

Pre-light using the wiring diagrams in this guide to ensure Kelvin temperature (color) is correct. **DO NOT connect max runs yet.**

3. DETERMINE LOCATION TO INSTALL

Dry-fit the lights to the desired location BEFORE removing the adhesive backing. Refer to the **CONFIGURATION GUIDE** for a list of products and zone locations.

4. PREP SURFACE

To ensure lasting bond, use the provided alcohol wipe to prep the surface (wall, channel, etc). For slippery surfaces, pre-sand the area before installing the lights or use 3M Primer 94.

5. MOUNT THE STRIP LIGHT

FOR CHANNEL - SEE BELOW. Once fit is confirmed, begin peeling the backing and gently press the strip light into place, slowly working your way towards the end. This process will make it easier to handle the strip light, especially in longer runs.

NOTE: Adhesive MUST BE REMOVED for proper heat dissipation. Do not let the LEDs hang when installing, as this could add stress to the solder connections.

INSTALLING IN CHANNEL:

6. CUT THE CHANNEL

To determine the length, place the LEDs beside the channel, add 1" for the Lead Lock Heat Shrink. Snap the lens and end cap into place and secure with masking tape at the cut mark to protect the lens from cracking. *If installing 1707: After cutting channel, remove lens - measure 0.39" from end - then cut lens to account for the end caps.* ***For bendable channel, see step 7g.***

Cut using metal rated saw blade. If needed, use a metal file to smooth the edges and wipe away metal or plastic residue to insure a clean install.

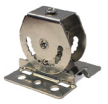
7. MOUNT LEDS IN CHANNEL

Center the LEDs starting 1/8" away from the end with the hole.

a. **Channel <u>without</u> Clips:** Install channel directly to the surface with the provided screws. You will need to pre-drill the holes before installation or use self-tapping screws when installing onto metal.

b. **Channel with Clips:** Screw clips to the surface at the beginning and end of each section and then about every 1.5 ft in between. For certain channels, you can utilize the clips to connect channel (see diagram).

c. **Universal Clips:** Attach the provided channel clips to the Universal Clips. Then install at least four clips for every 2M of channel, to the surface with screws. Snap your channel into the clips and secure the channel by pinching the clips around the channel.



d. **Mud-In Channel:** Prep the wall by measuring the channel width and cutting into the drywall. Then, slide the channel in the wall, with the wings resting on the drywall. (Optional: Secure the channel in place by using screws in the mud-in holes.)Then, mud over the wings to secure the channel.

e. **Universal Channel with Magnets & Connectors:** Slide the round magnets into the bottom of the channel. Plan to place 4 magnets for every 2M of channel. Then simply place it onto a magnetic surface.

To connect channel for longer runs, slide half of the connector into the bottom of the channel and secure using the screw. Slide the second piece of channel up against the other piece of channel and secure with a screw.

f. **Suspended Channel:** Unscrew Part B to remove the hexagon screw ⬢, then put the recessed clip on top and screw back together. Install it to the ceiling by unscrewing Part A and taking the cap and screwing it into place with the long screw provided. Install 3 suspension kits for every 2M.

Once the cables are in place and hanging from the ceiling, slide the recessed clips on Part B into the top of the channel.

g. **Bendable Channel:** Start by marking the center and then 1 foot on each side, if bending symmetrically. Use your bending tool, not bending past the bend radius, which can cause buckling or denting. For best results, bend about 4 degrees at a time and roll 6-12" beyond on each side of the center bend. The longer the roll, the less chance of any indentation on the channel. ***See product spec doc***

h. **Channeless Lens: With Adhesive Backing:** Once the LEDs are installed, install the lens by removing the adhesive backing and pressing it into place. **Using the screws is optional.**

8. INSTALL LENS

Once the LEDs are in place, install the lens by pressing it into place, starting from one end and working your way to the other, then snap the solid end cap onto the open end.

9. TURN POWER ON AT CIRCUIT BREAKER

Once your LEDS are installed, turn the power on at the circuit breaker. **View wiring diagrams or product spec doc.**

10. CONTROL YOUR LEDS

If using a controller, refer to the corresponding control instructions or product spec doc.

INSTALLING NEON ROUND OR MINI

1. FOLLOW STEPS 1-3 ON PAGE 1

2. CUT THE CHANNEL FOR NEON

Measure the length of the neon and subtract 3.62" to allow room for the end caps (subtract 3.15" for aqueous neon). Then measure the length of the channel and mark on the channel where you plan to cut.

Cut using a metal rated saw blade. If cut is rough, use a metal file to smooth the edges. Clean any remaining slivers of metal to insure a clean install.

3. MOUNT THE NEON (CHANNEL OR CLIPS)

Install channel or clips directly to the surface with screws. You will need to pre-drill the holes before installation or use self-tapping screws when installing onto metal.

Gently press neon into the channel/clip, where it will lock into place with the clamps. If you need to remove the neon, use a pliers to gently pinch the clamps to pull the neon out.

4. FOLLOW STEPS 9 - 10 ABOVE

For Aqueous Neon: Install channel directly to the surface with screws (required). You will need to pre-drill the holes before installation or cement screws when installing into cement. Can be installed up to 6 feet below water surface. Note: Power supply needs to be mounted a MINIMUM of 12.33 feet from water source.

⚠ NOVA FLEX WARNINGS & WAIVER

- Any installation of this product should be completed by a professional licensed electrician pursuant to all applicable governing laws, ordinances, regulations, national and local electrical and building codes.
- This is an electronic product which is susceptible to damage if handled incorrectly. Improper soldering or modification may result in a voided warranty. Warranty cases will be made at Nova Flex's discretion based on multiple factors.
- Do not allow product to be punctured or penetrated by foreign objects; this can result in a short circuit.
- Do not connect product directly to a 120V AC power source. For best performance, do not load the DC power source more than 80% of its labeled rating.
- Any use of this product is entirely at your own risk. Failure to utilize and install this product in its proper manner could result in severe injury and/or property damage.
- Keep out of reach of children.

This product is provided by the manufacturer "as is" "with all faults" without any warranties or representations, express or implied, including, but not limited to the warranties of merchantability or fitness for a particular purpose. In no event shall manufacturer be liable for any special, incidental, punitive indirect or consequential damages of any kind. Manufacturer offers this product and the user accepts it subject to the foregoing conditions, which may only be modified in a writing signed by the manufacturer. See complete Terms & Conditions at www.novaflexled.com

Do not attempt to make sharp bends. Excessive or exaggerated bending and twisting can damage the circuit.

NOTE: IP65 is water resistant / protected from water jets or spray at any angle; IP68 is protected from effects of permanent submersion in water up to 13 feet (but not for pools unless UL676 rated). Power supply is NOT. Cutting LEDs in the field may void the UL Certification and Warranty.

TROUBLESHOOTING

LEDS NOT ILLUMINATING THE RIGHT COLOR

To properly address this problem, we'll need to see what you are seeing. Take some pictures of the wiring installation where input and output connections meet and be prepared to e-mail them to service@novaflexled.com. Please have your SO number available, which can be located on the white label of the LED strip light.

If you are seeing color variations, this could be due to color reflections from surrounding surfaces.

DIM LEDS

It is important to make sure that the project is not too far away from the power supply. Please reference our Voltage Drop Chart to assist in determining the proper gauge wire for your project, if needing to run over 15 ft. The voltage that the LEDs need is low and can diminish over distance due to voltage drop. Refer to the Bill of Material to make sure you are using the proper light/power combination.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- If you are using a dimmer, make sure it's set to the brightest setting.

LEDS NOT TURNING ON

The first thing we recommend is to verify that the lights are hooked up correctly and the polarity is correct. Red=positive / Black=negative. If you have hooked up the lights backwards, don't worry - there have built-in safety measures. If current attempts to run backwards, the LEDs will not turn on.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- If you are using one of our 'quick connect' power supplies, be sure that the barrels are making a proper connection.
- If you are using the RGB strip light series, make sure that the connection has enough wire exposed on the leads going into the controller and they are all the way to the back of the terminals. If there is not enough wire, there won't be a good connection to turn on the lights.

LEDS FLICKERING, PULSING AND/OR ODDLY PUTTING OUT LIGHT

If you are using a dimming power supply, make sure your system is wired to a compatible dimmer switch. Refer to our Spec Sheets for a list of compatible dimming switches. Confirm polarity of wiring, ensuring +/- are connected properly.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- Unplug the project and make sure that the solder connection is secure. Gently wiggle the solder points to make sure that the wires are not falling off of the project. Then plug the project back in and try again.
- If the distance between the power supply and lights is greater than 15 ft, there can be loss of wattage. This can cause flickering.

LEDS NOT STICKING SECURELY

Wipe down the surface using the supplied alcohol wipe to ensure you have a clean surface. If you are still not seeing a desired outcome, we recommend applying some 3M Primer 94 to the surface or purchasing our Hard or Soft LED strip light clips. Our durable plastic clips are designed to make sure that the lighting is securely where you want it to be. The clips need to be nailed or screwed into the surface.

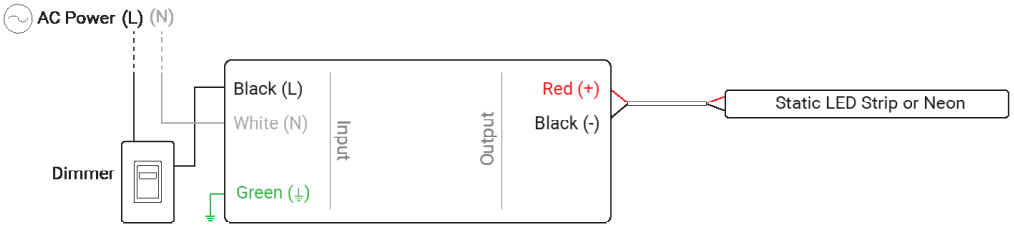
If your project has long straight edges with a surface that doesn't take to tape or if you want your project to have a diffused single light effect, we offer aluminum channel. We will supply you with screws and clips to apply to the surface. If none of these options are possible, there's always double-sided tape or silicone to consider.

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

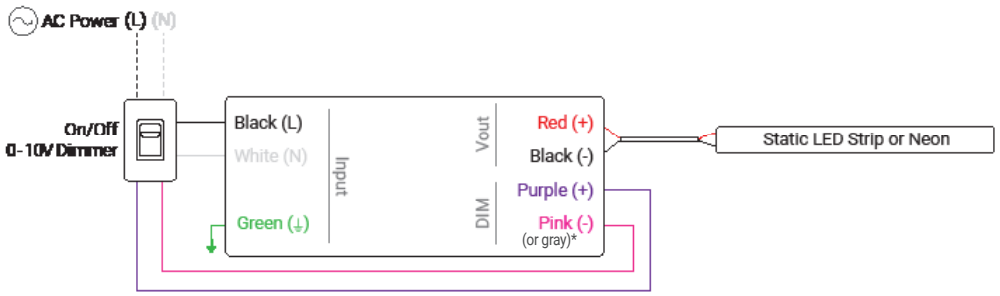
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

TRIAC / PHASE CUT DIMMING



- The Pulse-Width Modulation (PWM) for output voltage can be adjusted through input terminal of the AC phase line(L), by connecting a phase/ TRIAC dimmer
- Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, TRIAC dimmers
- Please use dimmers with power ≥ 1.5 times the output power of the driver

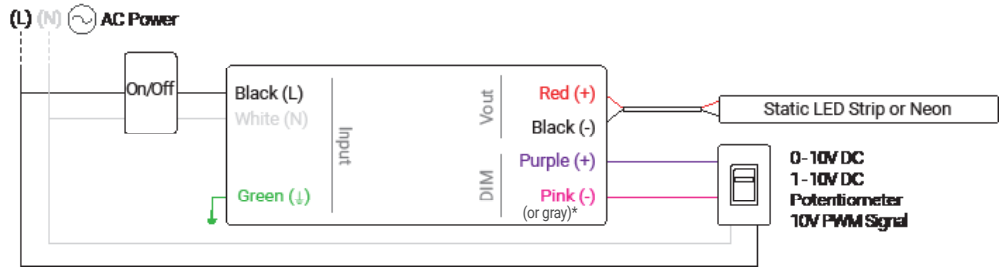
0-10V/1-10V DIMMING, WITH DIMMER ON INPUT SIDE



- The 0-10V/1-10V dimmer is on the input side so it can control dimming and on/off functions

*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

0-10V/1-10V DIMMING, WITH ON/OFF SWITCH ON INPUT SIDE



- The on/off switch is on the input side. 0-10V/1-10V controls dimming only, not on/off function

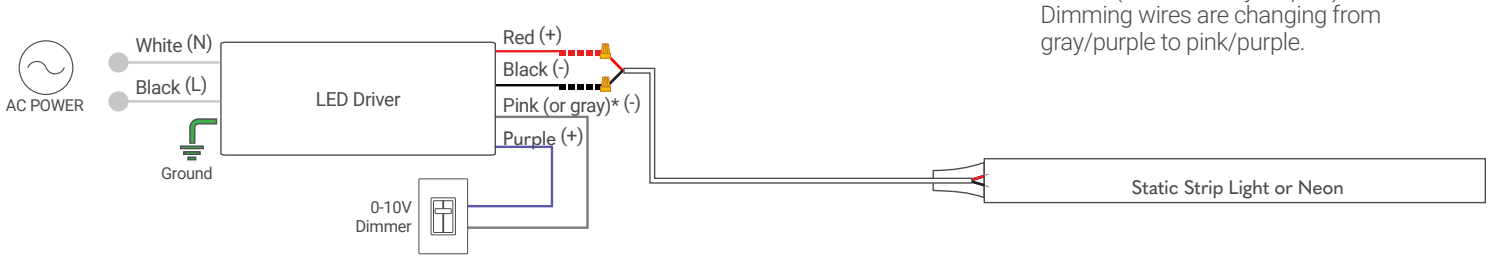
*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

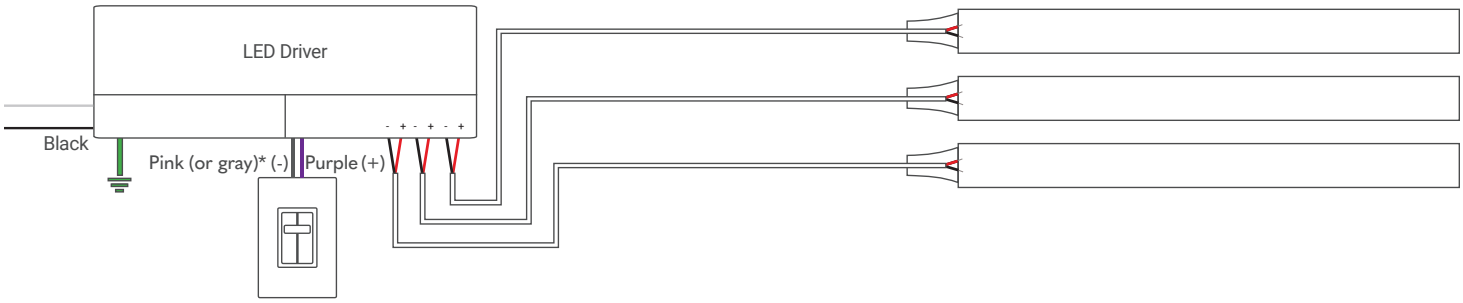
with 0-10V dimmers; Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

30W OR 96W 0-10V DIMMABLE DRIVER



*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

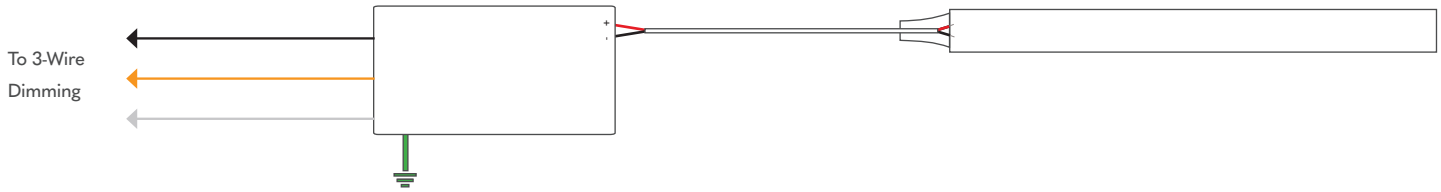
288W 0-10V MULTI-CHANNEL DIMMABLE DRIVER



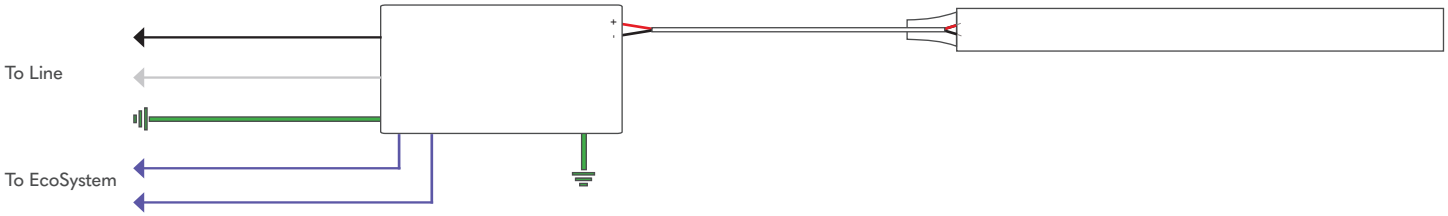
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Go to lutron.com for more info

WIRING DIAGRAM FOR 3-WIRE CONTROL



WIRING DIAGRAM FOR ECOSYSTEM DIGI-



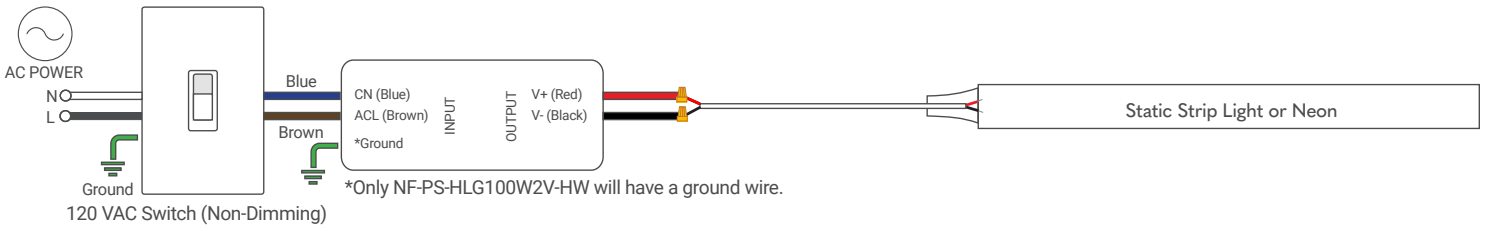
PROJECT	FIXTURE	PHASE	DATE

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

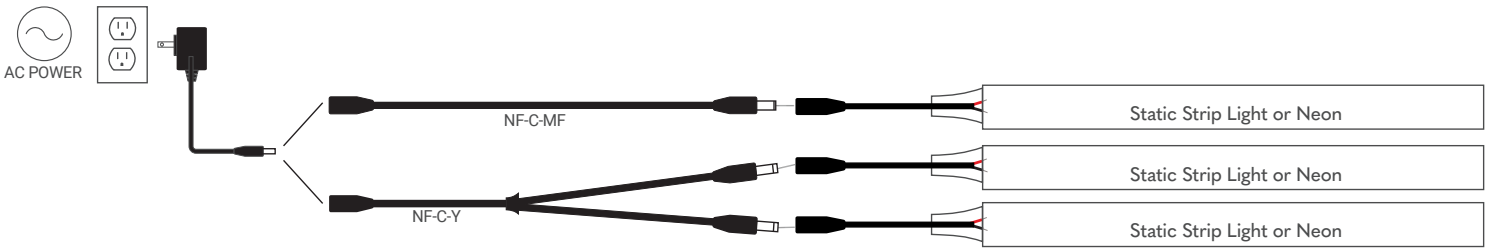
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

ELECTRONIC NON-DIMMING DRIVER



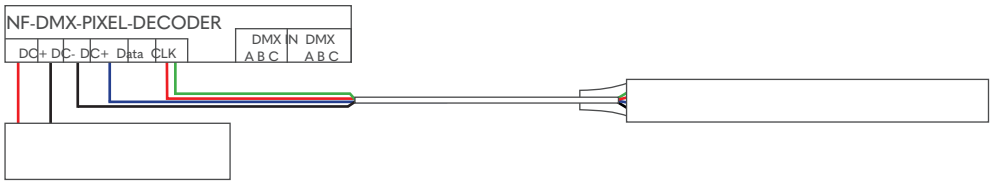
*Only NF-PS-HLG100W2V-HW will have a ground wire.

Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire



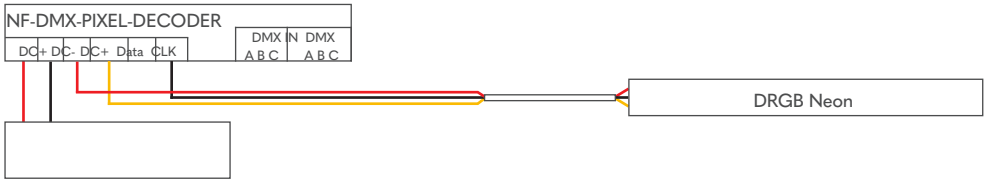
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Pixel Decoder - DRGB Strip



DC+	Red Wire
GNC	Black & Green Wire
Data (DI)	Blue Wire
CLK	No Connection

Pixel Decoder - DRGB Neon



DC+	Red Wire
GNC	Black Wire
Data (DI)	Yellow Wire
CLK	No Connection

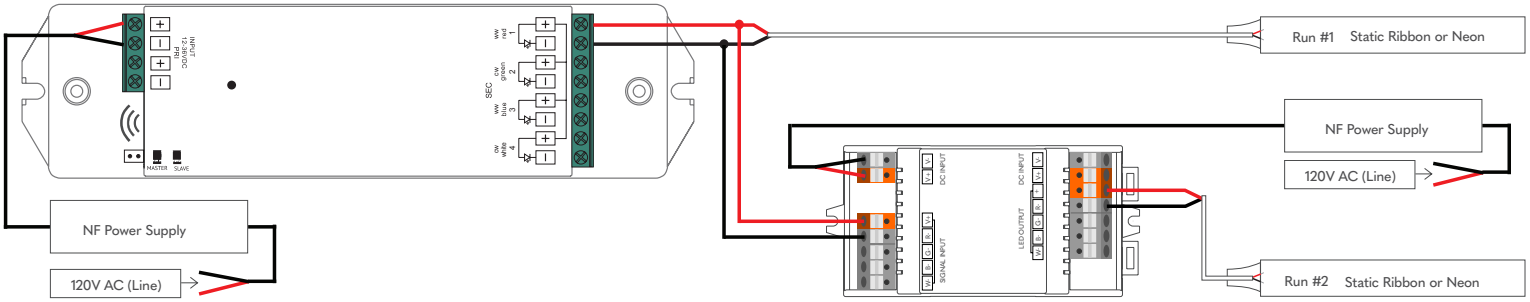
INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

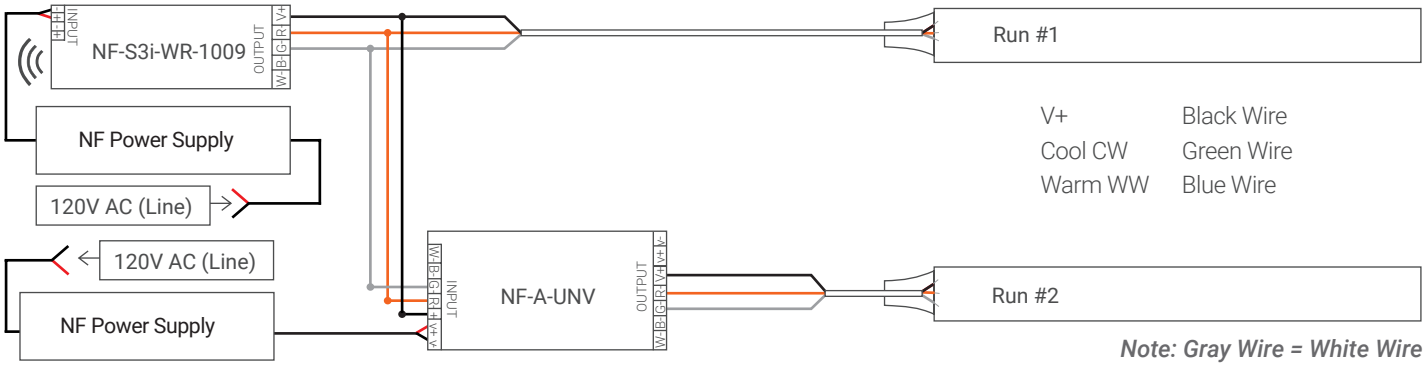
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Static Strip Light or Neon

\+ Red Wire
\- Black Wire



Adjustable Strip Light



V+	Black Wire
Cool CW	Green Wire
Warm WW	Blue Wire

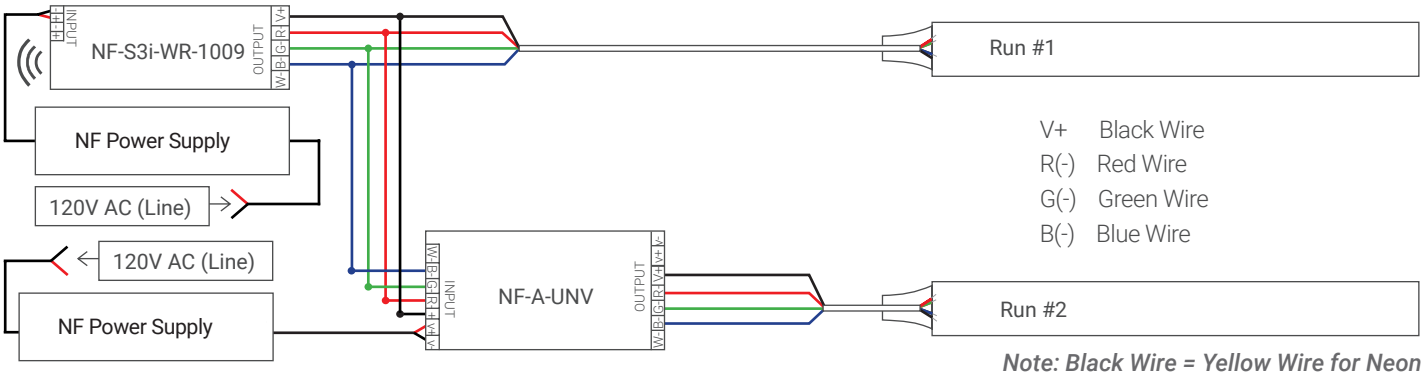
Note: Gray Wire = White Wire

PROJECT	FIXTURE	PHASE	DATE

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

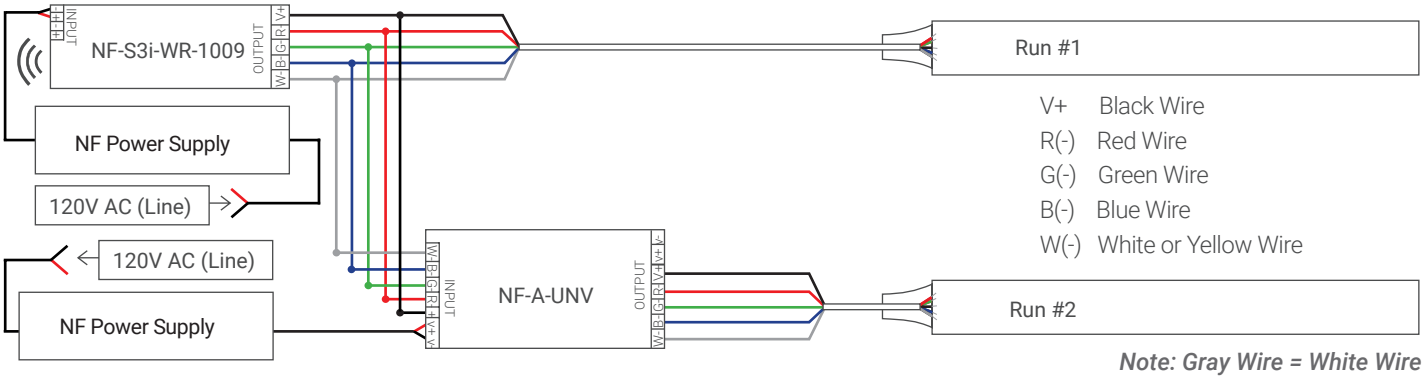
NOVA FLEX®

RGB Strip Light or Neon



Note: Black Wire = Yellow Wire for Neon

RGBW Strip Light



Note: Gray Wire = White Wire

ORDER GUIDE
FAMILY FULL NAME | WATTAGE

LISTED E366167

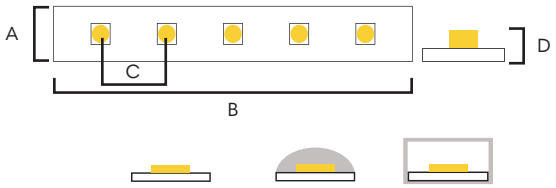
PART NUMBER BUILDER:

Series	Family	Voltage	Wattage	Environment	Kelvin	Length	Cut Point	Type	Wire In	Length	Wire Out	Length
SS	FAM	24	2.4	DRY DMP WET	22 25 27 30 32 35 41 52	RL5MT R10MT R30MT	A B	CL PL H2 BL	BE BR NA	IN	BE BR BA	IN
						SFXXX DFXXX						

Fixture Builder

Notes:
Tolerances are +/- 100%
Note
Note
Note
Note
Note

ENVIRONMENT AND DIMENSIONS



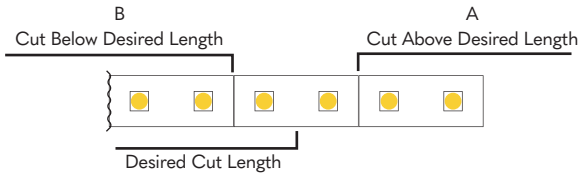
Section	Dry	Damp	Wet
A	309	93	60
B	314	96	90
C	306	95	97
D	349	98	93

LENGTH - AS A FIXTURE

Single Fed - Length in Inches - 3 digits

Double Fed - Length in Inches - 3 digits

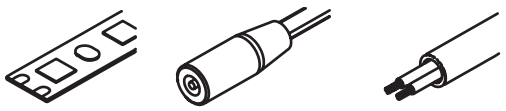
CUT POINT



KELVIN

CCT	Lumens/Ft	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
2200K	309	93	60	89	103
2500K	314	96	90	94	101
2700K	306	95	97	94	103
3000K	349	98	93	94	101
3200K	373	98	95	94	101
3500K	389	98	96	92	100
4100K	389	98	90	90	101
5200K	391	98	91	91	100

WIRE IN



Bare End | Barrel | None

WIRE OUT

Bare End | Barrel | None

LENGTH - REELS

5 Meter Reel | 10 Meter Reel | 30 Meter Reel

PROJECT | FIXTURE | PHASE | DATE

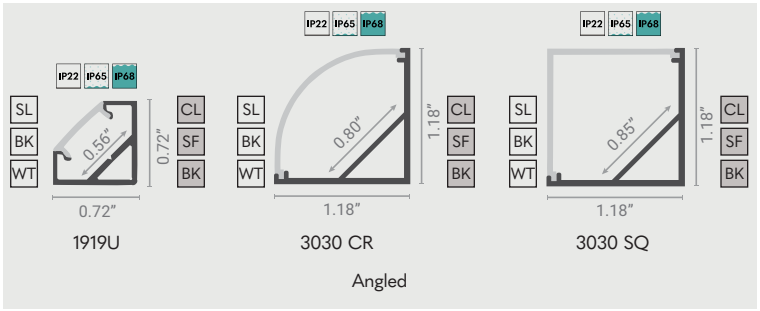
COMPATIBILITY - CHANNEL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

IP RATING
IP22 IP65 IP68

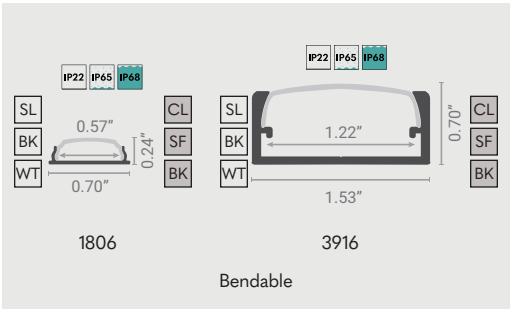
BODY COLOR
SL Silver BK Black WT White

LENS TYPE
CL Clear SF Satin BK Black



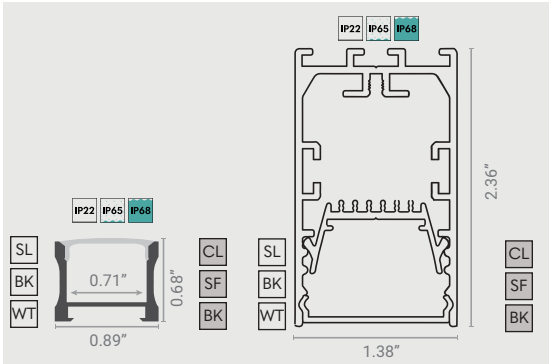
1919U | 3030 CR | 3030 SQ

Angled



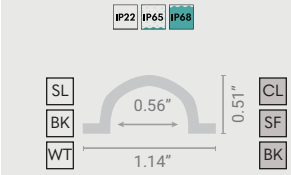
1806 | 3916

Bendable



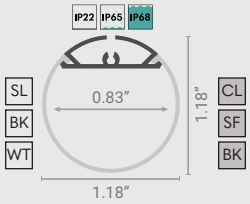
2217 | 3560

Universal



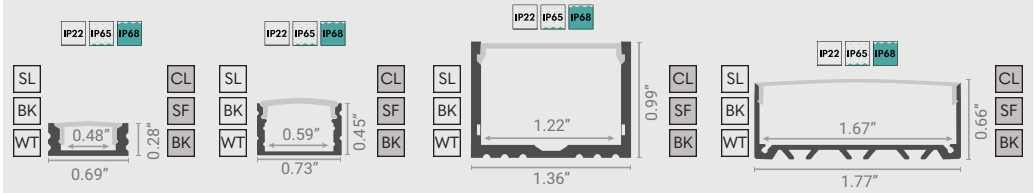
2913

Channeless



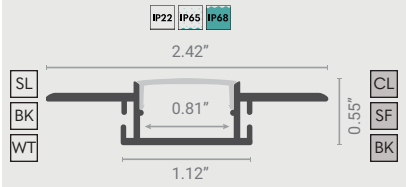
3030

Suspended



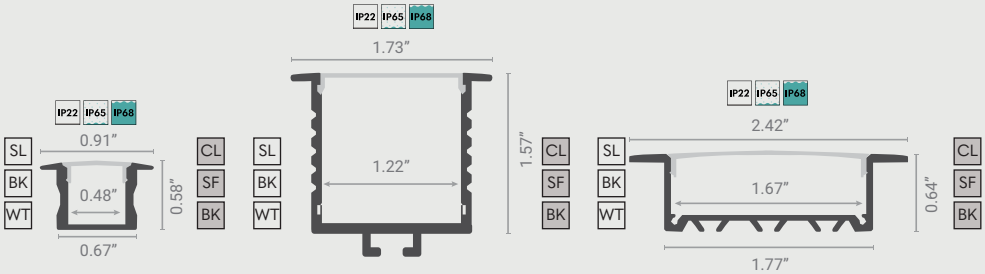
1707 | 1813 | 3525 | 4517

Surface



6214

Mud-In



2515 | 4540 | 6017

Recessed

PROJECT	FIXTURE	PHASE	DATE

COMPATIBILITY - CHANNEL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

Dotting with soft lens		DS-O-64	DS-O-128	DS-O-160	DS-O-240	DS-W-64	DS-W-128	DS-W-160	DS-W-240
Angled	1919U	2	1	1	1	x	x	x	x
	3030 SQ/CR	1	0	0	0	1	0	0	0
Bendable	1806	3	3	3	x	x	x	x	x
	3916	1	1	0	1	1	1	0	1
Mud-In	6214	1	1	1	1	2	1	1	1
Recessed	2515	1	0	0	x	x	x	x	x
	4540	0	0	0	0	0	0	0	0
	6017	1	1	0	0	1	1	0	0
Universal	2217	1	1	0	0	2	1	1	x
Suspended	3030 RN	0	0	0	0	1	0	0	0
Surface	1707	3	2	2	x	x	x	x	x
	1813	2	1	1	1	2	1	1	x
	3525	0	0	0	0	0	0	0	0
	4517	1	1	0	0	1	1	0	0
Channel-less	2913	1	0	0	0	x	x	x	x

COMPATIBILITY - POWER AND CONTROL
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

Series	Y/N	Product Name	Product SKU
Static		35W Non-DIM Driver	NF-PS-35W-24V-HW
		60W Non-Dim	NF-PS-60W-24V-HW
		96W Non-DIM Driver	NF-PS-96W-24V
Dynamic	N	Universal Amplifier	NF-A-UNV
	N	40W Lutron	NF-PS-L3DA-40W-24V-KL
	N	96W Lutron	NF-PS-L3DO-96W-24V
	N	288W DIM Driver	NF-PS-MAXX-288W-24V-0/10V
	N	Mini DRGB Dimmer	NF-WC-MINI-DRGB
	N	Universal DIM Decoder (DMX and/or 0-100)	NF-DMX-5A-4CH
	N	96W DIM Driver	NF-PS-96W-24V-0/10V
	N	30W DIM Driver	NF-PS-MAXX-30W-24V-0/10V
	N	S3i Wireless Receiver	NF-S3i-WR-1009
	N	S3i Push Controller - RGB/W	NF-S3i-PB-RGB/W
	N	S3i Push Controller - Adjustable	NF-S3i-PB-AS
	N	S3i Push Controller - Static DIM	NF-S3i-PB-D
	N	S3i Handheld Controller - RGB/W	NF-S3i-WC-RGB/W
	N	S3i Handheld Controller - Adjustable	NF-S3i-WC-AS
	N	S3i Handheld Controller - Static DIM	NF-S3i-WC-D
	N	S3i Touch Panel - RGB	NF-S3i-TP-RGB
	N	S3i Touch Panel - RGB/W	NF-S3i-TP-RGBW
	N	S3i Touch Panel - Adjustable	NF-S3i-TP-AS
	N	S3i Touch Panel - Static DIM	NF-S3i-TP-D
	N	DMX to S3i Decoder for Pixel	NF-DMX-Pixel-Decoder
Universal		Universal DIM Power	NF-PS-UNV-384W-24V
		Universal DIM Power	NF-PS-UNV-288W-24V
		Universal DIM Power	NF-PS-UNV-96W-24V
		Universal DIM Power	NF-PS-UNV-80W-24V
		Universal DIM Power	NF-PS-UNV-60W-24V
		Universal DIM Power	NF-PS-UNV-30W-24V
	N	Universal Non-DIM	NF-PS-UNV-384W-24V
	N	Universal Non-DIM	NF-PS-UNV-288W-24V
	N	Universal Non-DIM	NF-PS-UNV-96W-24V
	N	Universal Non-DIM	NF-PS-UNV-80W-24V
	N	Universal Non-DIM	NF-PS-UNV-60W-24V
	N	Universal Non-DIM	NF-PS-UNV-30W-24V

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

2200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

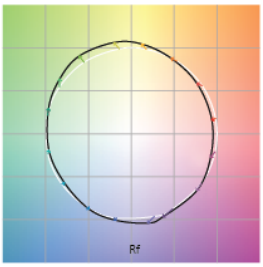
X: 0.524

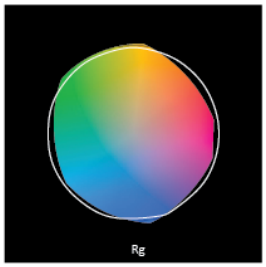
Y: 0.411

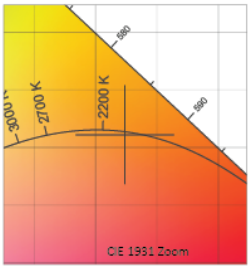
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

2500K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

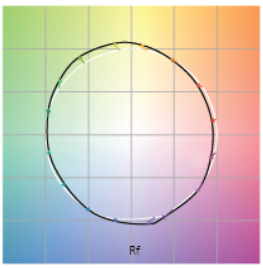
X: 0.524

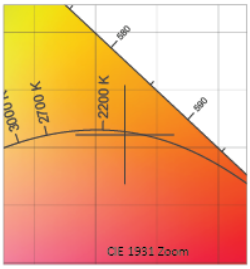
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

2700K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

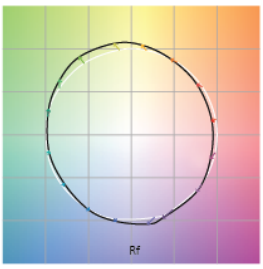
X: 0.524

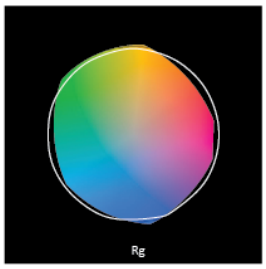
Y: 0.411

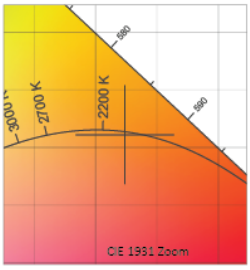
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

PROJECT | FIXTURE | PHASE | DATE

Rev: Aug.10.23.08:58

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

3000K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

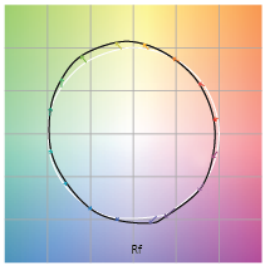
X: 0.524

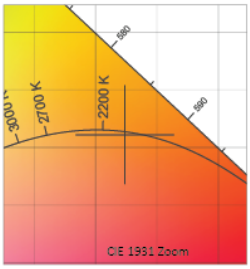
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

3200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

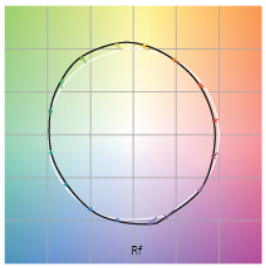
X: 0.524

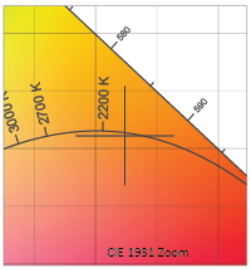
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

3500K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

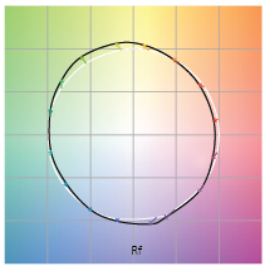
X: 0.524

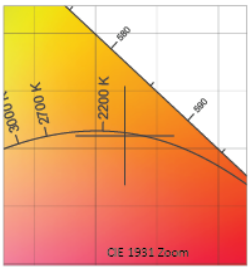
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

PROJECT | FIXTURE | PHASE | DATE

Rev: Aug.10.23.08:58

800.595.6302 | novaflexled.com

PHOTOMETRIC - KELVINS AND WATTS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

4100K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

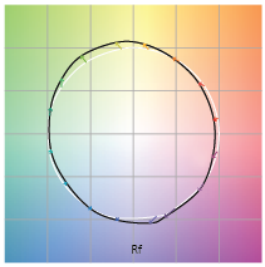
X: 0.524

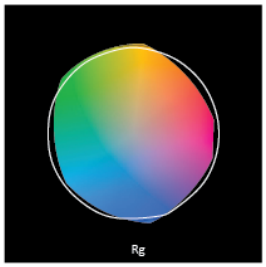
Y: 0.411

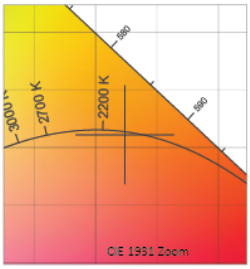
U: 0.304

V: 0.358

Δuv: -0.0008







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

5200K

2013 K

CRI: 92.8

CRI R9: 59.8

TM30 Rf: 88.1

TM30 Rg: 103.0

CQS: 79.2

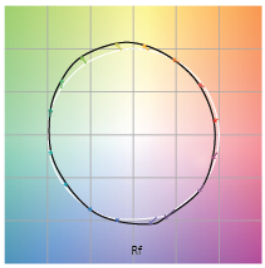
X: 0.524

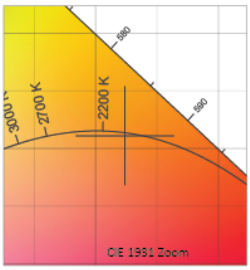
Y: 0.411

U: 0.304

V: 0.358

Δuv: -0.0008





R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.6	96.8	96.9	93.5	93.1	97.6	90.3	80.1	59.8	90.5	95.5	90.8	94.7	96.4	88.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
74.8	83.6	80.8	81.5	81.1	76.7	73.8	77.0	85.6	82.8	82.5	81.8	81.6	78.6	76.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
88.9	86.9	85.0	87.8	89.3	86.9	84.8	88.0	91.3	93.0	90.8	88.5	88.4	70.6	84.9	86.6

TM30

Hue Bin	R_f	Chroma	Hue
1	89	-5%	-1%
2	87	-4%	5%
3	85	-1%	7%
4	88	5%	7%
5	89	9%	5%
6	87	9%	1%
7	85	5%	-8%
8	88	0%	-8%
9	91	-2%	-4%
10	93	-3%	1%
11	91	0%	4%
12	88	2%	3%
13	88	6%	-9%
14	71	1%	-15%
15	85	0%	-10%
16	87	-4%	-8%

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

INSTALLING LED STRIP LIGHTING:

1. TURN POWER OFF AT CIRCUIT BREAKER

SHOCK HAZARD! Turn power OFF at circuit breaker prior to installation to avoid serious injury or death.

2. VERIFY PRODUCT IS CORRECT

Pre-light using the wiring diagrams in this guide to ensure Kelvin temperature (color) is correct. **DO NOT connect max runs yet.**

3. DETERMINE LOCATION TO INSTALL

Dry-fit the lights to the desired location BEFORE removing the adhesive backing. Refer to the **CONFIGURATION GUIDE** for a list of products and zone locations.

4. PREP SURFACE

To ensure lasting bond, use the provided alcohol wipe to prep the surface (wall, channel, etc). For slippery surfaces, pre-sand the area before installing the lights or use 3M Primer 94.

5. MOUNT THE STRIP LIGHT

FOR CHANNEL - SEE BELOW. Once fit is confirmed, begin peeling the backing and gently press the strip light into place, slowly working your way towards the end. This process will make it easier to handle the strip light, especially in longer runs.

NOTE: Adhesive MUST BE REMOVED for proper heat dissipation. Do not let the LEDs hang when installing, as this could add stress to the solder connections.

INSTALLING IN CHANNEL:

6. CUT THE CHANNEL

To determine the length, place the LEDs beside the channel, add 1" for the Lead Lock Heat Shrink. Snap the lens and end cap into place and secure with masking tape at the cut mark to protect the lens from cracking. *If installing 1707: After cutting channel, remove lens - measure 0.39" from end - then cut lens to account for the end caps.* ***For bendable channel, see step 7g.***

Cut using metal rated saw blade. If needed, use a metal file to smooth the edges and wipe away metal or plastic residue to insure a clean install.

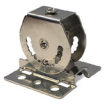
7. MOUNT LEDS IN CHANNEL

Center the LEDs starting 1/8" away from the end with the hole.

a. **Channel <u>without</u> Clips:** Install channel directly to the surface with the provided screws. You will need to pre-drill the holes before installation or use self-tapping screws when installing onto metal.

b. **Channel with Clips:** Screw clips to the surface at the beginning and end of each section and then about every 1.5 ft in between. For certain channels, you can utilize the clips to connect channel (see diagram).

c. **Universal Clips:** Attach the provided channel clips to the Universal Clips. Then install at least four clips for every 2M of channel, to the surface with screws. Snap your channel into the clips and secure the channel by pinching the clips around the channel.



d. **Mud-In Channel:** Prep the wall by measuring the channel width and cutting into the drywall. Then, slide the channel in the wall, with the wings resting on the drywall. (Optional: Secure the channel in place by using screws in the mud-in holes.)Then, mud over the wings to secure the channel.

e. **Universal Channel with Magnets & Connectors:** Slide the round magnets into the bottom of the channel. Plan to place 4 magnets for every 2M of channel. Then simply place it onto a magnetic surface.

To connect channel for longer runs, slide half of the connector into the bottom of the channel and secure using the screw. Slide the second piece of channel up against the other piece of channel and secure with a screw.

f. **Suspended Channel:** Unscrew Part B to remove the hexagon screw ⬢, then put the recessed clip on top and screw back together. Install it to the ceiling by unscrewing Part A and taking the cap and screwing it into place with the long screw provided. Install 3 suspension kits for every 2M.

Once the cables are in place and hanging from the ceiling, slide the recessed clips on Part B into the top of the channel.

g. **Bendable Channel:** Start by marking the center and then 1 foot on each side, if bending symmetrically. Use your bending tool, not bending past the bend radius, which can cause buckling or denting. For best results, bend about 4 degrees at a time and roll 6-12" beyond on each side of the center bend. The longer the roll, the less chance of any indentation on the channel. ***See product spec doc***

h. **Channeless Lens: With Adhesive Backing:** Once the LEDs are installed, install the lens by removing the adhesive backing and pressing it into place. **Using the screws is optional.**

8. INSTALL LENS

Once the LEDs are in place, install the lens by pressing it into place, starting from one end and working your way to the other, then snap the solid end cap onto the open end.

9. TURN POWER ON AT CIRCUIT BREAKER

Once your LEDS are installed, turn the power on at the circuit breaker. **View wiring diagrams or product spec doc.**

10. CONTROL YOUR LEDS

If using a controller, refer to the corresponding control instructions or product spec doc.

INSTALLING NEON ROUND OR MINI

1. FOLLOW STEPS 1-3 ON PAGE 1

2. CUT THE CHANNEL FOR NEON

Measure the length of the neon and subtract 3.62" to allow room for the end caps (subtract 3.15" for aqueous neon). Then measure the length of the channel and mark on the channel where you plan to cut.

Cut using a metal rated saw blade. If cut is rough, use a metal file to smooth the edges. Clean any remaining slivers of metal to insure a clean install.

3. MOUNT THE NEON (CHANNEL OR CLIPS)

Install channel or clips directly to the surface with screws. You will need to pre-drill the holes before installation or use self-tapping screws when installing onto metal.

Gently press neon into the channel/clip, where it will lock into place with the clamps. If you need to remove the neon, use a pliers to gently pinch the clamps to pull the neon out.

4. FOLLOW STEPS 9 - 10 ABOVE

For Aqueous Neon: Install channel directly to the surface with screws (required). You will need to pre-drill the holes before installation or cement screws when installing into cement. Can be installed up to 6 feet below water surface. Note: Power supply needs to be mounted a MINIMUM of 12.33 feet from water source.

⚠ NOVA FLEX WARNINGS & WAIVER

- Any installation of this product should be completed by a professional licensed electrician pursuant to all applicable governing laws, ordinances, regulations, national and local electrical and building codes.
- This is an electronic product which is susceptible to damage if handled incorrectly. Improper soldering or modification may result in a voided warranty. Warranty cases will be made at Nova Flex's discretion based on multiple factors.
- Do not allow product to be punctured or penetrated by foreign objects; this can result in a short circuit.
- Do not connect product directly to a 120V AC power source. For best performance, do not load the DC power source more than 80% of its labeled rating.
- Any use of this product is entirely at your own risk. Failure to utilize and install this product in its proper manner could result in severe injury and/or property damage.
- Keep out of reach of children.

This product is provided by the manufacturer "as is" "with all faults" without any warranties or representations, express or implied, including, but not limited to the warranties of merchantability or fitness for a particular purpose. In no event shall manufacturer be liable for any special, incidental, punitive indirect or consequential damages of any kind. Manufacturer offers this product and the user accepts it subject to the foregoing conditions, which may only be modified in a writing signed by the manufacturer. See complete Terms & Conditions at www.novaflexled.com

Do not attempt to make sharp bends. Excessive or exaggerated bending and twisting can damage the circuit.

NOTE: IP65 is water resistant / protected from water jets or spray at any angle; IP68 is protected from effects of permanent submersion in water up to 13 feet (but not for pools unless UL676 rated). Power supply is NOT. Cutting LEDs in the field may void the UL Certification and Warranty.

TROUBLESHOOTING

LEDS NOT ILLUMINATING THE RIGHT COLOR

To properly address this problem, we'll need to see what you are seeing. Take some pictures of the wiring installation where input and output connections meet and be prepared to e-mail them to service@novaflexled.com. Please have your SO number available, which can be located on the white label of the LED strip light.

If you are seeing color variations, this could be due to color reflections from surrounding surfaces.

DIM LEDS

It is important to make sure that the project is not too far away from the power supply. Please reference our Voltage Drop Chart to assist in determining the proper gauge wire for your project, if needing to run over 15 ft. The voltage that the LEDs need is low and can diminish over distance due to voltage drop. Refer to the Bill of Material to make sure you are using the proper light/power combination.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- If you are using a dimmer, make sure it's set to the brightest setting.

LEDS NOT TURNING ON

The first thing we recommend is to verify that the lights are hooked up correctly and the polarity is correct. Red=positive / Black=negative. If you have hooked up the lights backwards, don't worry - there have built-in safety measures. If current attempts to run backwards, the LEDs will not turn on.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- If you are using one of our 'quick connect' power supplies, be sure that the barrels are making a proper connection.
- If you are using the RGB strip light series, make sure that the connection has enough wire exposed on the leads going into the controller and they are all the way to the back of the terminals. If there is not enough wire, there won't be a good connection to turn on the lights.

LEDS FLICKERING, PULSING AND/OR ODDLY PUTTING OUT LIGHT

If you are using a dimming power supply, make sure your system is wired to a compatible dimmer switch. Refer to our Spec Sheets for a list of compatible dimming switches. Confirm polarity of wiring, ensuring +/- are connected properly.

- If you are a licensed electrician and have a voltmeter, inspect the current going through the power supply using appropriate safety measures.
- Unplug the project and make sure that the solder connection is secure. Gently wiggle the solder points to make sure that the wires are not falling off of the project. Then plug the project back in and try again.
- If the distance between the power supply and lights is greater than 15 ft, there can be loss of wattage. This can cause flickering.

LEDS NOT STICKING SECURELY

Wipe down the surface using the supplied alcohol wipe to ensure you have a clean surface. If you are still not seeing a desired outcome, we recommend applying some 3M Primer 94 to the surface or purchasing our Hard or Soft LED strip light clips. Our durable plastic clips are designed to make sure that the lighting is securely where you want it to be. The clips need to be nailed or screwed into the surface.

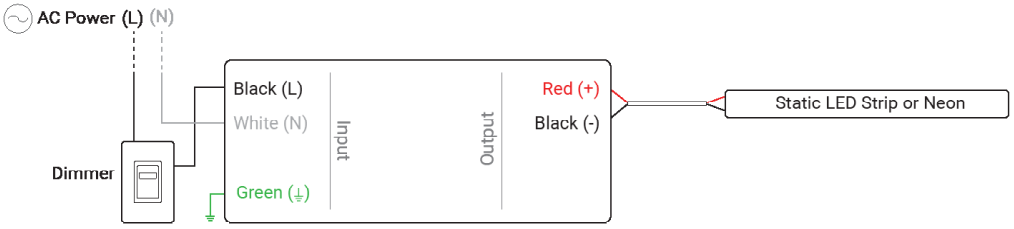
If your project has long straight edges with a surface that doesn't take to tape or if you want your project to have a diffused single light effect, we offer aluminum channel. We will supply you with screws and clips to apply to the surface. If none of these options are possible, there's always double-sided tape or silicone to consider.

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

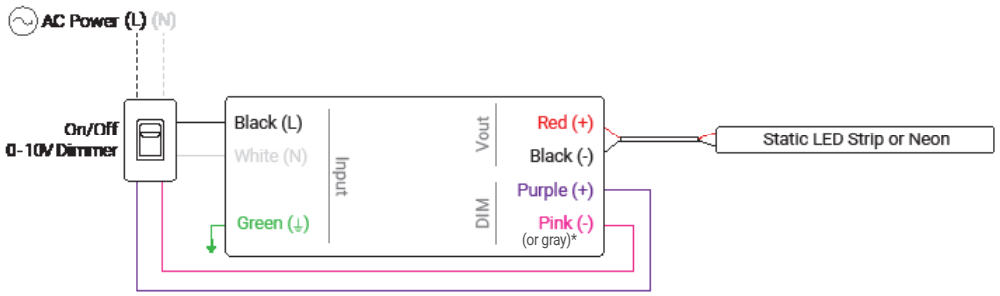
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

TRIAC / PHASE CUT DIMMING



- The Pulse-Width Modulation (PWM) for output voltage can be adjusted through input terminal of the AC phase line(L), by connecting a phase/ TRIAC dimmer
- Works with forward phase/leading edge, MLV and reverse phase/trailing edge, ELV, TRIAC dimmers
- Please use dimmers with power ≥ 1.5 times the output power of the driver

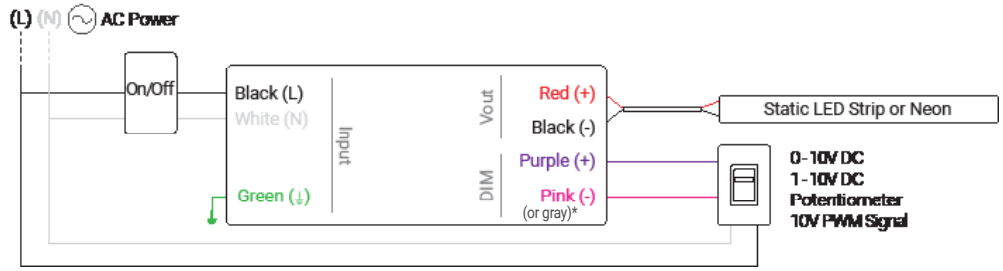
0-10V/1-10V DIMMING, WITH DIMMER ON INPUT SIDE



- The 0-10V/1-10V dimmer is on the input side so it can control dimming and on/off functions

*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

0-10V/1-10V DIMMING, WITH ON/OFF SWITCH ON INPUT SIDE



- The on/off switch is on the input side. 0-10V/1-10V controls dimming only, not on/off function

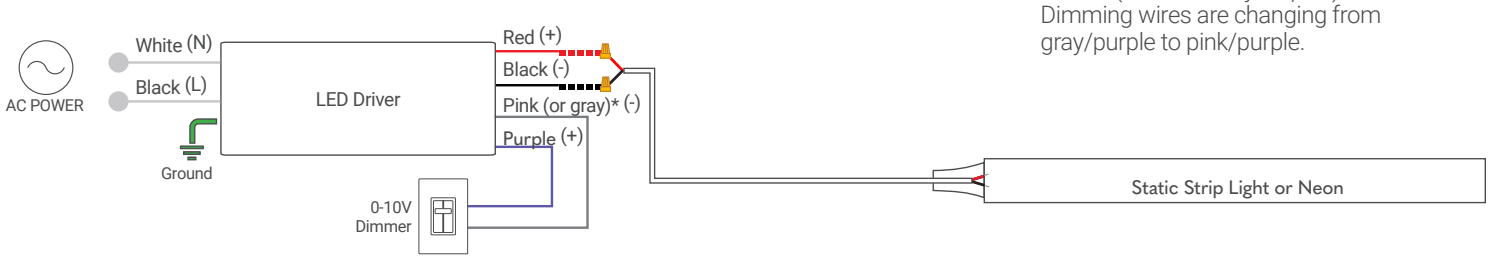
*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

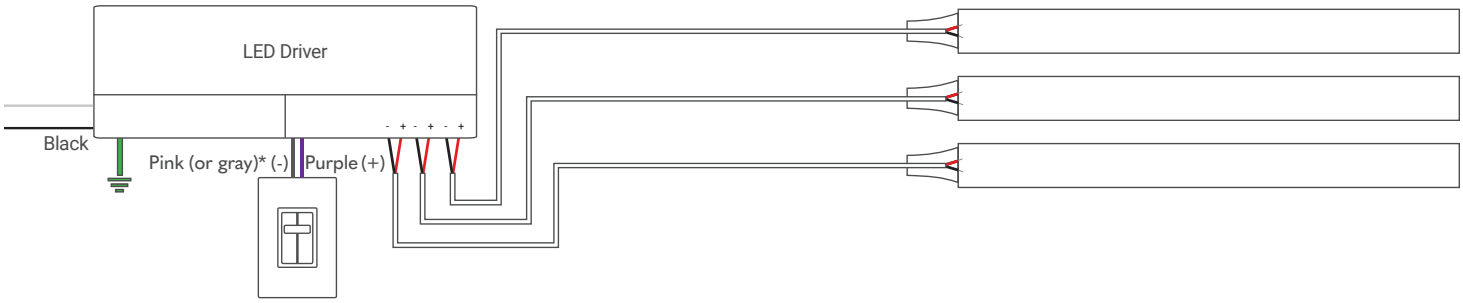
with 0-10V dimmers; Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

30W OR 96W 0-10V DIMMABLE DRIVER



*The GRAY wire should only be used for neutral (this wire may be pink). Dimming wires are changing from gray/purple to pink/purple.

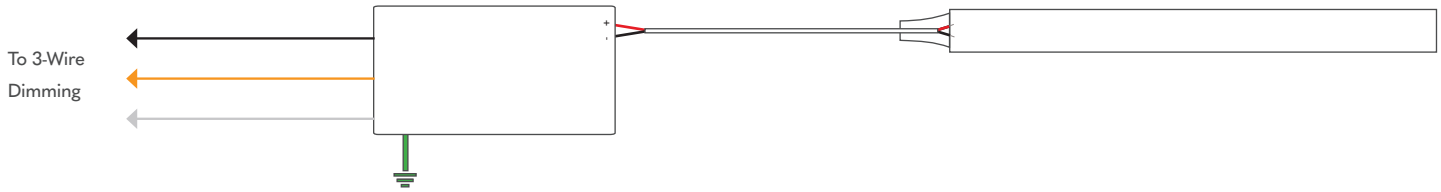
288W 0-10V MULTI-CHANNEL DIMMABLE DRIVER



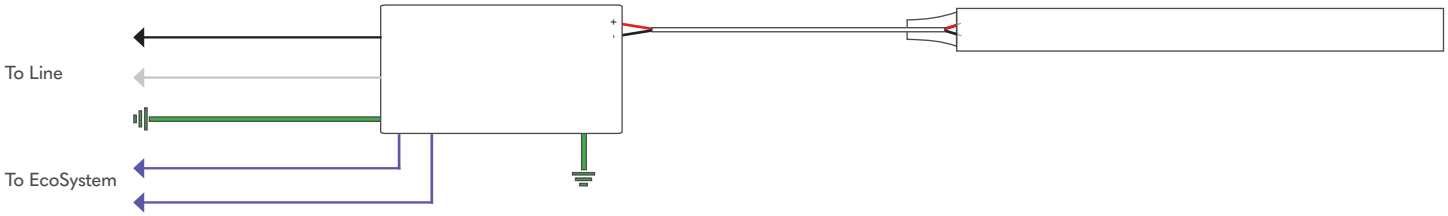
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Go to lutron.com for more info

WIRING DIAGRAM FOR 3-WIRE CONTROL



WIRING DIAGRAM FOR ECOSYSTEM DIGI-



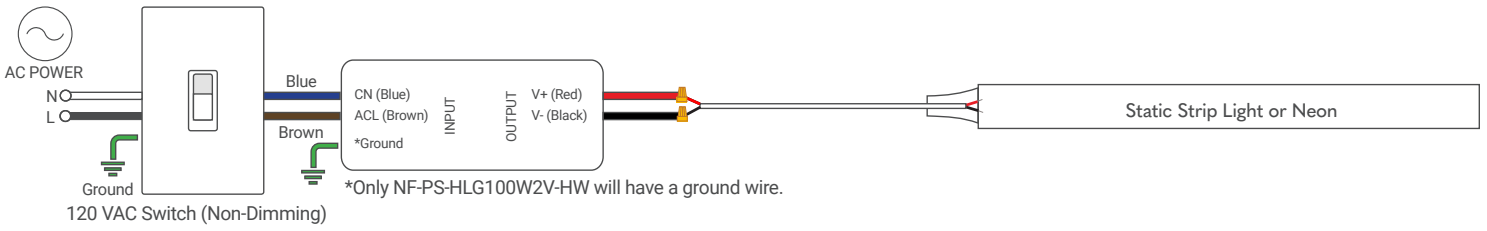
PROJECT	FIXTURE	PHASE	DATE

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

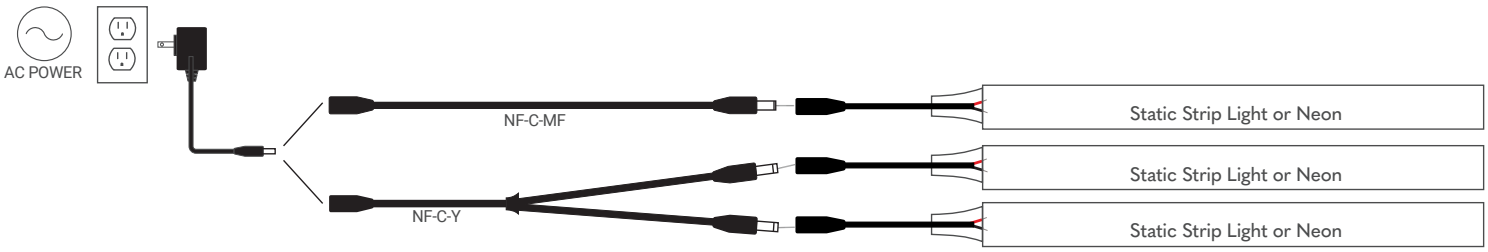
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

ELECTRONIC NON-DIMMING DRIVER



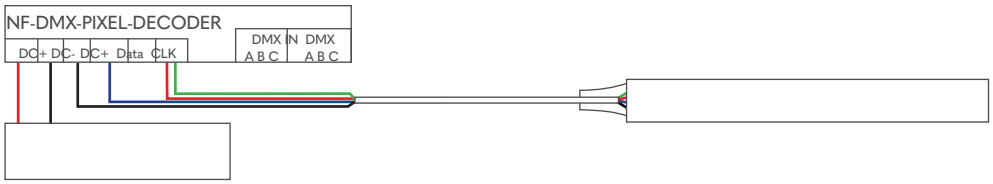
*Only NF-PS-HLG100W2V-HW will have a ground wire.

Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire



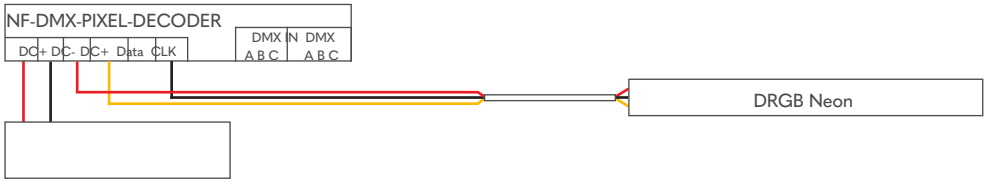
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Pixel Decoder - DRGB Strip



DC+	Red Wire
GNC	Black & Green Wire
Data (DI)	Blue Wire
CLK	No Connection

Pixel Decoder - DRGB Neon



DC+	Red Wire
GNC	Black Wire
Data (DI)	Yellow Wire
CLK	No Connection

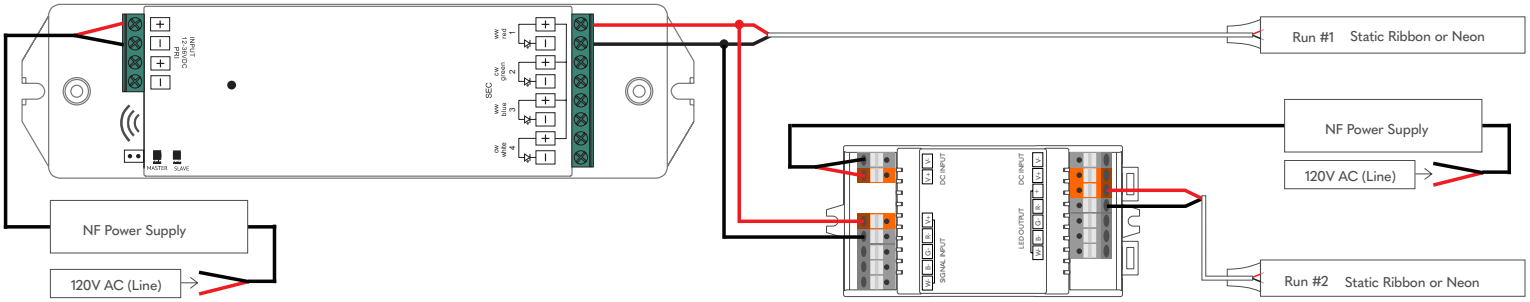
INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

NOVA FLEX®

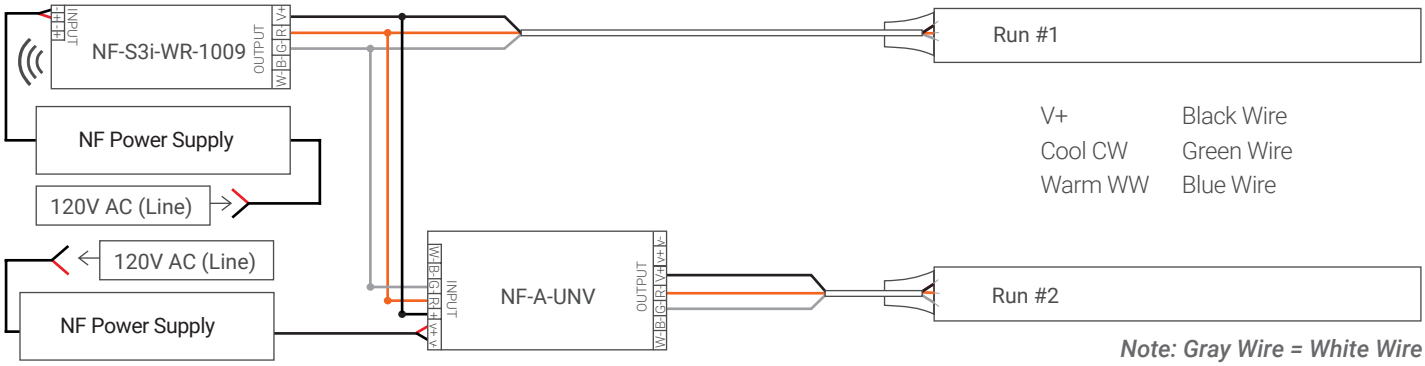
Strip Light: 20 Gauge Wire | Neon: 18 Gauge Wire

Static Strip Light or Neon

\+ Red Wire
\- Black Wire



Adjustable Strip Light



V+	Black Wire
Cool CW	Green Wire
Warm WW	Blue Wire

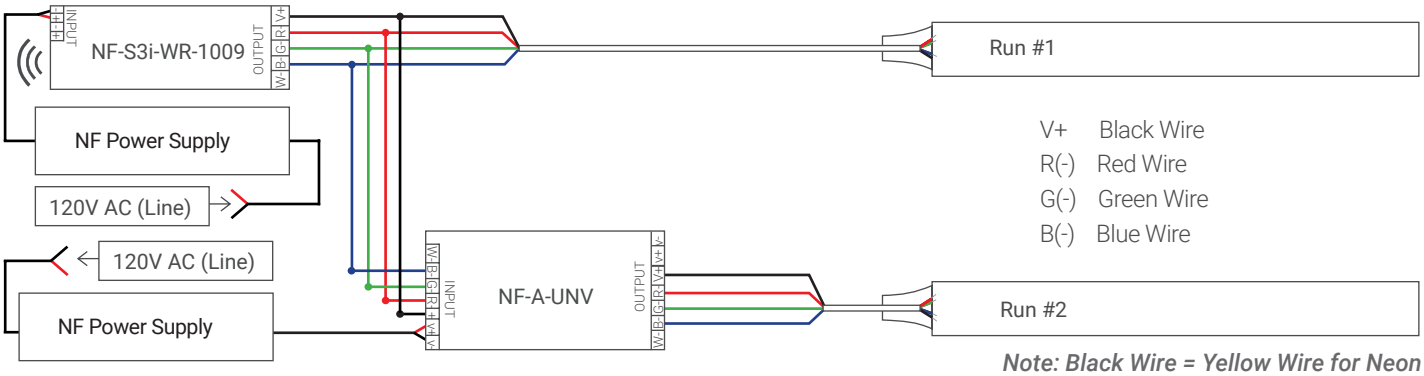
Note: Gray Wire = White Wire

PROJECT	FIXTURE	PHASE	DATE

INSTALATION INSTRUCTIONS
FAMILY FULL NAME | WATTAGE

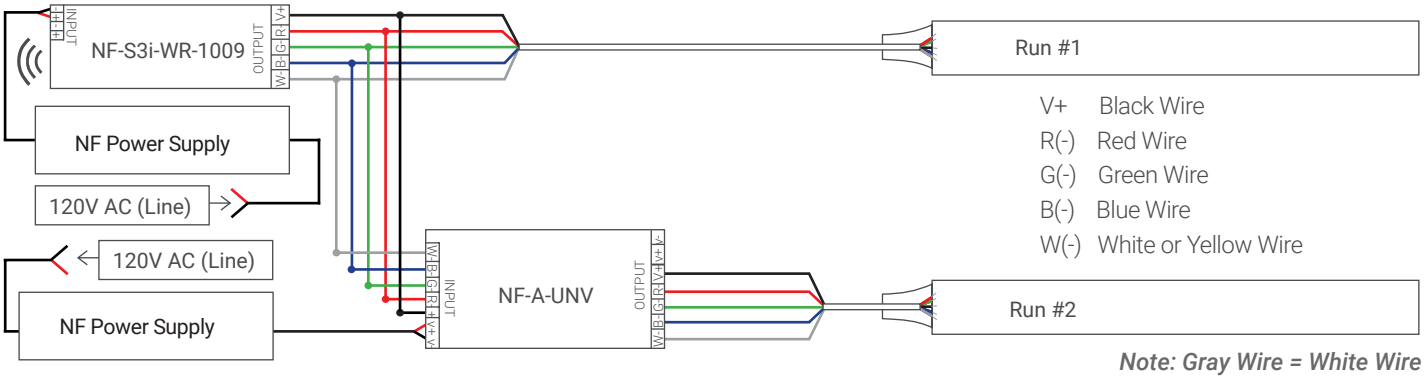
NOVA FLEX®

RGB Strip Light or Neon



Note: Black Wire = Yellow Wire for Neon

RGBW Strip Light



Note: Gray Wire = White Wire