

Project		Catalog #		Type	
Prepared by		Notes		Date	



Corelite Jaylum - J3

LED
Suspended
Direct / Indirect

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Photometric Data page 4
- Energy and Performance Data page 4
- Control Systems page 5
- Product Warranty

Product Certification



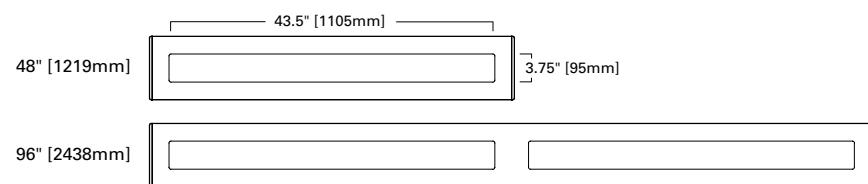
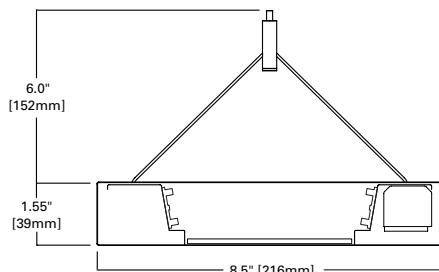
Product Features



Top Product Features

- Low-profile architectural design and quality
- Highly efficient LED (Up to 157 lumens per watt)
- Multiple lumen packages (Up to 2000 lumens per ft)
- Individual or continuous mounting
- Available with VividTune white tuning
- Options to meet Buy American Act requirements

Dimensions and Fixture Lengths



Order Information

SAMPLE ORDER NUMBER: J3-CL-40L835-1D-UNV-STD-WAA-W-AC48-T1-16

Domestic Preference		Series	Indirect Shielding	Direct Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Number of Circuits	Additional Circuiting
Domestic Preference		Series	Indirect Shielding	Direct Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Number of Circuits	Additional Circuiting
[Blank]=Standard BAA=Buy American Act	J3=Jaylum Suspended Direct/Indirect QS-J3= Jaylum Suspended Indirect/ Direct, Quick Spec	U=Open Top (80% Up / 20% Dn) C=Clear Top Cover (75% Up / 25% Dn) F=Frosted Top Cover (65% Up / 35% Dn)	L=Frosted Lens	20L=2,000 Lms (500 Lms/ft) 30L=3,000 Lms (750 Lms/ft) 40L=4,000 Lms (1,000 Lms/ft) 50L=5,000 Lms (1,250 Lms/ft) 60L=6,000 Lms (1,500 Lms/ft) 80L=8,000 Lms (2,000 Lms/ft)	8=80 CRI 9=90 CRI	30=3000K 35=3500K 40=4000K 3050=White Tune 3000K-5000K 2765=White Tune 2700K-6500K	1=Single Circuit	D=None (Default Dimming) E=Emergency Circuit S=Secondary Circuit N=Emergency + Secondary Circuit	
Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Shaded options indicate valid quick spec selections. See Quick Spec Terms and Conditions for more information.	More distributions are available. See Jaylum J2 series.	Refer to performance table on Page 4 for more detail.	Tunable White options to be used with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Not compatible with other control or sensor options.	Refers to wiring in cross section.	Select "D" wiring for individual fixtures. Secondary circuit not available with integrated sensor options.			

Input Voltage	Driver Dimming Options	Integral Sensor	Integral Emergency	Finish	Suspension Length	Ceiling Type	Run Length
Input Voltage	Driver Dimming Options	Integral Sensor	Integral Emergency	Finish	Suspension Length	Ceiling Type	Run Length
120=120V 277=277 UNV=Universal (120V-277V) 347=347V	STD=Standard 0-10V (1%-100%) SR=Sensor Ready (1%-100%) SLT=Fifth Light DALI (1%-100%) LH=Lutron HiLume 1% EcoSystems W2A=White Tuning, 2ch, 0-10V Intensity and CCT Control	WAA=WaveLinx Wireless Integrated Sensor WAB=WaveLinx Lite Wireless Integrated Sensor LWIPD1=Enlighted Wireless Integrated Sensor	B06=6-watt, 120V-277V Emergency Battery Pack B10=10-watt, 120V-277V Emergency Battery Pack EPC=LVS Controls EPC UL924 Bypass Relay	W=White S=Silver B=Black CC=Custom Color	Adj. Cable AC48=48" AC120=120" AC240=240" AC360=360"	T1=15/16" T-Bar T9=9/16" T-Bar TS=Slotted T-Bar JB=Junction Box / Structure UM=Universal Ceiling Kit (T1, T9, JB) S=Swivel at Canopy (-=T1, T9, TS or JB)	4=4 ft 8=8 ft XX=Specify Row Length
Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes
Integral 347V driver with STD 0-10V option only. Factory supplied 347V remote transformer for all other driver options.	One driver per 4' section unless otherwise noted.	WAA and WAB sensor must be used with "STD" driver. LW sensor must be used with "SR" sensor ready driver. Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency section. SWPD1 has been renamed to WAA, but remains the same sensor.	EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).	White mounting hardware standard; for black mounting hardware, add "-B" after ceiling type.	Standard row configurations over 8' consist of 4' and 8' luminaires.		

Product Specifications

Construction

- Low profile housing
- Integral high reflectance gear tray constructed from die-formed 20 gauge cold rolled steel
- 8-1/2" x 1-1/2" profile

End Caps

- Standard endcaps are rounded die cast aluminum
- Mechanically attached flush to end of fixture without exposed fasteners
- End cap adds 1/2" at each end

Lengths

- Available in 4-ft and 8-ft sections
- All sections are modular eliminating the need for starter, joiner and end sections
- Row configurations over 8-ft consist of 4-ft and 8-ft luminaires unless otherwise specified

Finish

- Electrostatically applied polyester powder coat paint
- White, silver, or black
- RAL custom colors are available

Mounting

- Aircraft cable mounts on 4'-0" and 8'-0" centers
- Fixture is balanced with cross cable to allow for minimal leveling
- Minimum mounting height from ceiling to top of fixture is 8"
- All sections are continuously wired with push-in connectors for fast installation
- Fixtures can be joined for straight continuous runs

Shielding / Optics

- Bottom lens is a high light transmission 0.08" thick frosted acrylic material.
- Optional top cover optics allow light distribution adjustment.
- Top lens is 0.06" thick acrylic and does not protrude above fixture housing.

LED and Light Engine

- LED's are available in 3000K, 3500K, 4000K
- Lumen output will be affected - please refer to the lumen adjustment factor table
- LED system coupled with integral electronic drivers to deliver optimal performance
- 347V 0-10V drivers are available
- Dimming wires come standard but can be capped in the field for standard switched operation

Integrated Controls

- Cooper Lighting Solutions' Connected Lighting Systems:
 - WaveLinx sensor
 - Enlighted sensor
 - Fifth Light DALI driver
- Refer to the Connected Lighting options page and ordering information for more details

Emergency Options

- Optional 120V-277V integral emergency battery pack is 14W maximum, 90 minute output, and powers a 4-foot section
- Test switch/indicator button located on the top side of the luminaire
- Patented EZ Key prevents accidental discharge of the battery during construction
- For approximate delivered lumens multiply the

lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 14 = 1400 lumens)

- The combination of integrated sensor and emergency circuit options require an EPC UL924 bypass relay that disables sensor control of emergency sections when normal power is lost
- Emergency section wiring and UL 924 emergency/ generator transfer options available – consult factory for details

Lumen Maintenance

- Projected lumen maintenance based on TM-21 standards is L93 > 60,000 hours at 25°C ambient conditions.

Weight

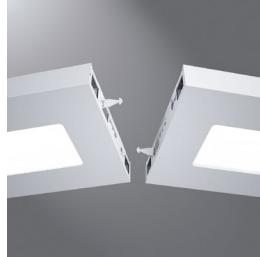
- 3.8 lbs per foot

Compliance

- UL recognized components and indoor luminaires are cULus - 1598, 25°C ambient environments
- damp location listed
- RoHS compliant
- DesignLights Consortium™ Qualified and classified for DLC Standard and DLC Premium, refer to www.designlights.org for details.
- Tested according to IESNA LM-79 and LM-80 procedures

Warranty

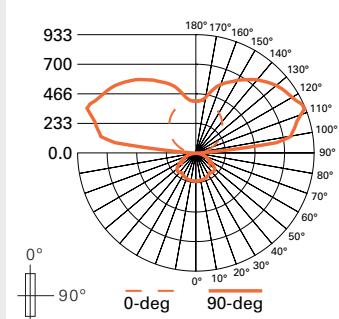
- Five year warranty standard
www.cooperlighting.com/legal



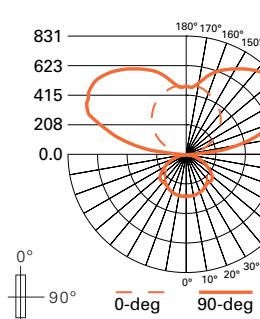
Quick-Tab Alignment

Corelite's patented quick-tab alignment system creates a seamless and simple installation every time. Simply align the tabs into the corresponding slots. The fixture can then hang freely while a single contractor makes the final connections; it all slides back together and is securely fastened in place.

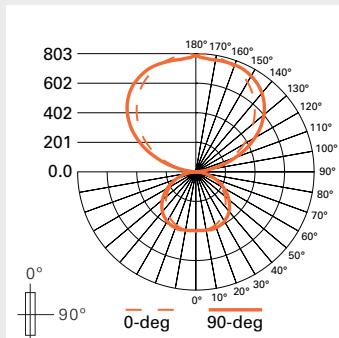
Photometric Data

[View IES files](#)

FILE NAME:
J3-UL-40L835-1D-UNV-4.IES
LAMP: (LD5) LED 3500K
LUMENS: 4033 Lm
WATTS: 25.9 W
LPW: 156 Lm/W
TEST NO.: P253309
80% UP / 20% Down



FILE NAME:
J3-CL-40L835-1D-UNV-4.IES
LAMP: (LD5) LED 3500K
LUMENS: 3862 Lm
WATTS: 25.9 W
LPW: 149 Lm/W
TEST NO.: P253327
75% UP / 25% Down



FILE NAME:
J3-FL-40L835-1D-UNV-4.IES
LAMP: (LD5) LED 3500K
LUMENS: 3865 Lm
WATTS: 25.9 W
LPW: 149 Lm/W
TEST NO.: P26582
65% UP / 35% Down

Note: Refer to IES files for more product data.

Energy and Performance Data

J3 LED Light Level Outputs and Distributions (3500K, 80 CRI)								
Series	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW	Distribution	
		4FT	Per FT	4FT	Per FT		% Up	% Down
J3-UL	20L	1976	494	12.8	3.2	154	80%	20%
	30L	3092	773	19.7	4.9	157		
	40L	4033	1008	25.9	6.5	156		
	50L	5076	1269	33.5	8.4	152		
	60L	6104	1526	41.3	10.3	148		
	80L	7953	1988	57.2	14.3	139		
J3-CL	20L	1892	473	12.8	3.2	148	75%	25%
	30L	2961	740	19.7	4.9	150		
	40L	3862	966	25.9	6.5	149		
	50L	4861	1215	33.5	8.4	145		
	60L	5846	1462	41.3	10.3	142		
	80L	7617	1904	57.2	14.3	133		
J3-FL	20L	1894	474	12.8	3.2	148	65%	35%
	30L	2963	741	19.7	4.9	150		
	40L	3865	966	25.9	6.5	149		
	50L	4865	1216	33.5	8.4	145		
	60L	5850	1463	41.3	10.3	142		
	80L	7623	1906	57.2	14.3	133		

Lumen Adjustment Factors

CCT	80 CRI	90 CRI
3000K	0.961	0.830
3500K	1.000	0.861
4000K	1.019	0.883

Example Calculation:

40L / 3500K / 80 CRI

Lumen Output selected = 1019 lms/ft

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 1019 lms/ft x 0.861 = 877 lms/ft

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>93%	331,000

Color Data (3500K)

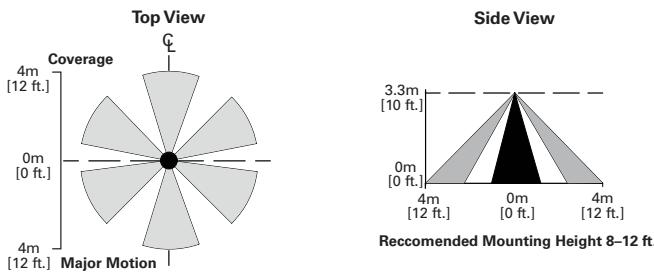
	80CRI	90CRI
TM-30-15	R _f	82.5
	R _g	96.0
CRI/CIE	R _a	83.1
	R _g	72.1

Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune



Connected Systems
[CLICK HERE](#)



The Jaylum (J3) with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Jaylum (J3) delivers superior lighting with integrated occupancy and daylighting controls. For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings. The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

For additional information integrated sensors and connected lighting, please visit [Cooper Lighting Solutions' Connected Lighting Website](#).



Sensor Integration

Integrated sensors are located at the end of each 4' unit and in the middle of each 8' unit for individual and continuous runs. Each unit can be individually controllable or grouped together with the integrated sensors.

Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



Standalone



**Controlled
WaveLinx Lite**



**Connected
WaveLinx Wireless**



**Enterprise
Trellix**

	Standalone	Controlled WaveLinx Lite	Connected WaveLinx Wireless	Enterprise Trellix
Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Gateways	–	–	1 WAC	300 WACs
Devices	–	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
Software	–	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
Areas	–	28 per Site	16 per WAC	up to 4,800
Zones	–	16 per Area	16 per Area	up to 76,800
Scheduling	–	–	Local	Global
VividTune™	–	–	Yes	Yes
Plug-Load Control	–	–	Yes	Yes
Integration	–	–	–	BACnet, API
Dashboards	–	–	–	Energy, Occupancy
Configuration	–	Installer	Technician	Technician / IT

SCALABILITY





Jaylum (J3) with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.

Performance Data

Tunable White - J3 LED Light Level Outputs (3500K, 80 CRI)						
Series	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
J3-UL	20L	2343	586	16.2	4.1	145
	30L	3012	753	20.7	5.2	146
	40L	4013	1003	27.9	7.0	144
	50L	5011	1253	35.5	8.9	141
	60L	6036	1509	44.1	11.0	137
	80L	7984	1996	62.3	15.6	128
J3-CL	20L	2244	561	16.2	4.1	139
	30L	2885	721	20.7	5.2	139
	40L	3843	961	27.9	7.0	138
	50L	4799	1200	35.5	8.9	135
	60L	5781	1445	44.1	11.0	131
	80L	7646	1912	62.3	15.6	123
J3-FL	20L	2245	561	16.2	4.1	139
	30L	2887	722	20.7	5.2	139
	40L	3846	962	27.9	7.0	138
	50L	4802	1201	35.5	8.9	135
	60L	5785	1446	44.1	11.0	131
	80L	7652	1913	62.3	15.6	123

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT. For suggested control configurations, go to www.cooperlighting.com for tunable white application guides.

warm 2700K

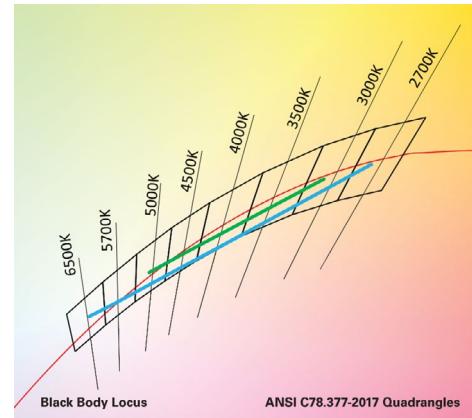
CCT
0-10V

cool 6500K

10%

Intensity
0-10V

100%



Tunable White - Lumen Adjustment Factors

CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.918	0.784
3000K	0.946	0.778	0.944	0.815
3500K	1.000	0.850	0.977	0.856
4000K	1.053	0.919	0.998	0.883
4500K	1.062	0.934	1.016	0.916
5000K	1.062	0.934	1.03	0.924
6500K	-	-	1.045	0.949

Example of Lumen Adjustment Calculation

J3-UL-40L93050 ...
at 90 CRI tuned to 4000K

Lumen Adjustment Factor = 0.919

Light Output Per Foot=
1009 lm/ft x 0.919 = 927 lm/ft

$$\text{Efficacy} = \frac{927 \text{ lm}}{7.0 \text{ W}} = 132 \text{ lm/W}$$