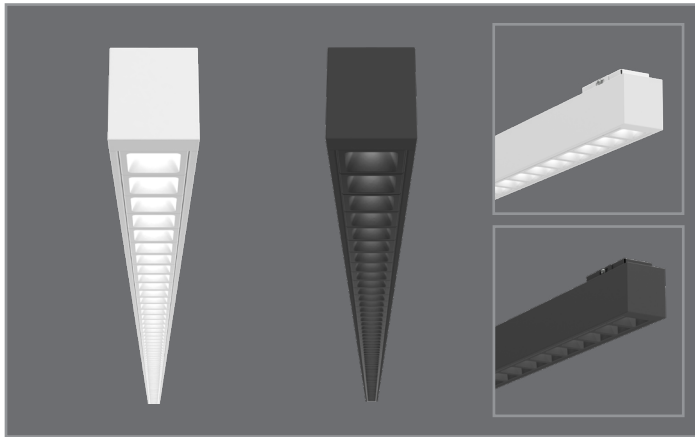| Project		Catalog #		Type	
Prepared by		Notes		Date	

Corelite

Discreet

LED
Surface
Direct

Typical Applications

• Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

Product Certification

UL CERTIFIED SAFETY · RoHS COMPLIANT · Efficiency Standards T24 California Title 24 Non-Residential Compliant

IALDLIRC

Product Features

Connected Systems · powered by fifthlight technology · damp location · BAA BUY AMERICAN ACT COMPLIANT OPTIONS AVAILABLE

Top Product Features

- Sleek design with integral electrical components and circuiting options
- Low glare illumination with precision-engineered optical system
- Black (UGR<6) and White (UGR<13) baffle options
- Up to 121 lumens per watt
- Options to meet Buy American Act requirements

Dimensions

Cross Section View

.5"
[12.7mm]

3.00"
[76.2mm]

2.63"
[66.802mm]

Bottom Views

48" [1219mm]

72" [1829mm]

96" [2438mm]
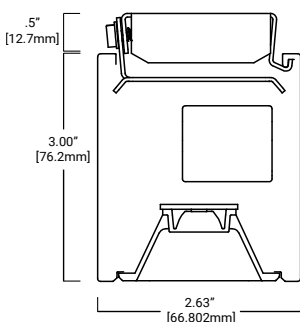
Note: End caps add .8" at each end. Sensor end caps add 2.3".

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Order Information

SAMPLE ORDER NUMBER: **DL2-BB-M-075D-935-1D-UNV-STD-WAA-BSL6-W-SU-32**

Domestic Preferences	Series	Shielding	Distribution	Lumen Package Down (Lms/ft)	CRI/CCT	Circuiting (In Cross Section)	Specialty Wiring
[Blank]=Standard **BAA**=Buy American Act	**DL2**= Discreet Linear 2" Surface	**BB**=Black Baffle, TIR Optic **WB**=White Baffle, TIR Optic	**M**=Medium, 80°	**050D**=500 Lumens/ft Down **075D**=750 Lumens/ft Down **100D**=1000 Lumens/ft Down **125D**=1250 Lumens/ft Down **____D**=Specify	**930**=3000K, 90+ CRI **935**=3500K, 90+ CRI **940**=4000K, 90+ CRI	**1**=Single Circuit	**D**=None (Default Dimming) **E**=Emergency Circuit **S**=Secondary Circuit **N**=Secondary + Emergency Circuit
Notes Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Notes**	**Notes**	**Notes**	**Notes** Custom lumen output available. Down (Direct): Min = 150 Lms/ft Max = 1500 Lms/ft Consult factory to specify custom lumen package Not all lumen packages are available for every configuration. See Driver Availability tables for more details.	**Notes**	**Notes** Refers to wiring in cross section.	**Notes** Emergency and Secondary circuit section wiring are configured per unit (4ft, 6ft, 8ft, or 12ft). Secondary circuit not available with integrated sensor options.

Voltage	Driver/Dimming	Integrated Sensor Options	Integrated Emergency Device Options	Finish	Mounting Type	Run Length
UNV=Univeral (120V-277V) **347**=347V	**STD**=Standard 0-10V (1%-100%) **SR**=Sensor Ready (1%-100%) **5LT**=Fifth Light DALI (1%-100%) **LH**=Lutron HiLume 1% EcoSystems (LDE1)	**WAA**=WaveLinx Wireless Integrated Sensor **WAB**=WaveLinx Lite Wireless Integrated Sensor **LWIPD1**=Enlighted Wireless Integrated Sensor	**BSL6**=Bodine 6-watt, 120V-277V Emergency Battery Pack, Self-Diagnostic, BSL6LST **EPC**=LVS Controls EPC UL924 Bypass Relay	**W**=White **S**=Silver **B**=Black **CC**=Custom Color	**SU**=Ceiling Surface Mount, Junction Box	**4**=4 ft **6**=6 ft **8**=8 ft **XX**=Specify Run Length
Notes Integrated 347V driver with STD 0-10V option only.	**Notes** See Driver Availability tables for more details.	**Notes** WAA and WAB sensor must be used with "STD" driver. LWI sensor must be used with "SR" driver. Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency fixture.	**Notes** Battery operates entire downlight portion of 4ft, 6ft fixtures, 4ft sections of 8ft. Battery available in fixtures up to a combined 2000 lms/ft. EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others).	**Notes** **CC**=must denote RAL color number	**Notes** Fixture-side surface mount bracket is pre-installed on luminaire. Ceiling side brackets are kitted.	**Notes** See 'Standard Row Configurations' table on Page 4 for continuous row length breakdowns.

Product Specifications

Construction
- Single-piece extruded aluminum housing
- 2.63" x 3" profile
- Die-formed 20 gauge cold rolled steel LED tray
- Driver accessible from above

End Caps
- Die cast aluminum end caps with machined outer surfaces for precision alignment to housing
- Attach mechanically to the end of the fixture without exposed fasteners
- Standard end cap adds 0.8" at each end. Integrated sensor end cap adds 2.3" at each end

Lengths
- Available in 4-ft, 6-ft, and 8-ft sections
- Modular design eliminates the need for starter, intermediate, and end of run sections
- See table on page 4 for standard continuous row length breakdowns

Finish
- Electrostatically applied polyester powder coat paint
- White, silver, and black finishes are standard.
- RAL custom colors are available

Mounting
- Surface mount fixture mounts directly to structure over a 2"x4" standard electrical box

- All sections are continuously wired with push-in connectors for fast installation
- Fixtures can be joined for straight continuous runs using supplied alignment brackes and internal cast joiners
- Refer to installation instructions for ceiling interface details

Shielding
- **BB**(Black) and **WB**(White): Injection molded, contoured, segmented baffles with for low UGR values and improved visual comfort.

Optics
- Precision engineered TIR optics on upper and lower LED light engines for optimal light distribution and low glare
- 110˚ peak candela angle in indirect distribution
- 80° beam angle direct distribution with 45° cutoff

LED and Light Engine
- LEDs are available in 3000K, 3500K, 4000K
- CRI standard ≥90CRI
- Lumen output will be affected - please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L85 and calculated theoretical L70 exceeds 135,000 hrs.
- Drivers available in 120-277V and 347V

Integrated Controls
- 0-10V dimming to 1% standard
- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- DALI 2.0 and Lutron dimming available

Emergency Options
- Emergency circuit option operates entire downlight portion of a specified unit (4 ft, 6 ft, or 8 ft)
- Optional 6-watt 120-277V integral emergency battery illuminates entire down-light portion of 4ft and 6ft fixtures, and 4 ft. sections of 8ft fixture.
- 90-minute backup period for code compliance
- Test switch/indicator button located on the side of the luminaire
- 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 6 = 600 lumens)
- Battery is self-testing
- UL 924 emergency/generator transfer options available

Weight
- < 2.6 lbs. per foot

Compliance
- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- Stated life per TM21 standards
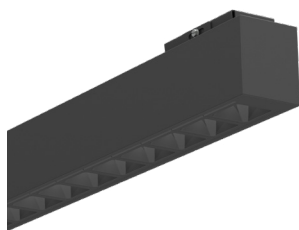- Can be used for State of California Title 24 high efficacy luminaire

Warranty
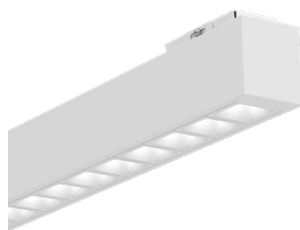- Five year warranty standard www.cooperlighting.com/legal
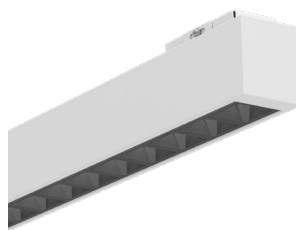
Discrete Optical System
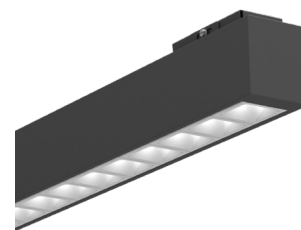

Baffle & Finish Options

BB-B
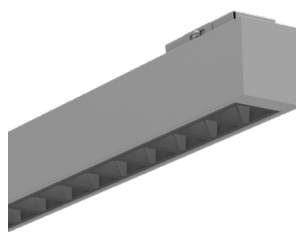Black Baffle
Black Fixture Finish
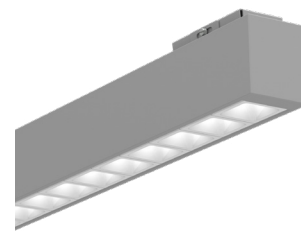

WB-W
White Baffle
White Fixture Finish

BB-W
Black Baffle
White Fixture Finish

WB-B
White Baffle
Black Fixture Finish
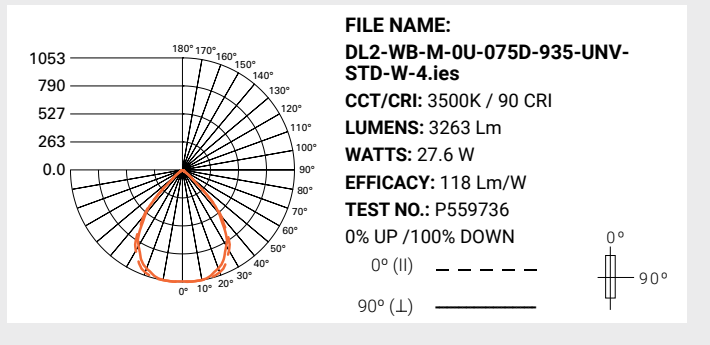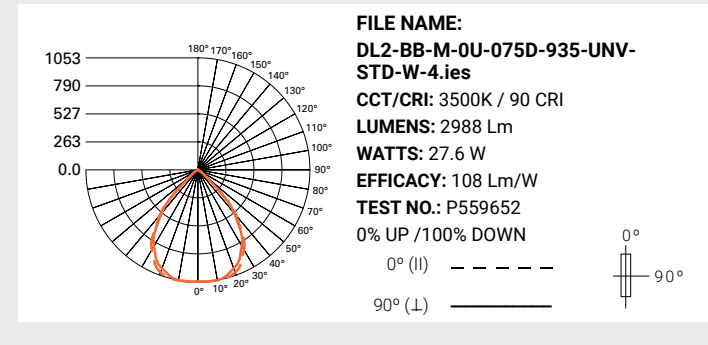

BB-S
Black Baffle
Silver Fixture Finish

WB-S
White Baffle
Silver Fixture Finish

Note: All Finish and Baffle combinations are available. Not all are shown. Custom color housing finishes are also available.

Photometric Data

FILE NAME:
DL2-BB-M-0U-075D-935-UNV-STD-W-4.ies
CCT/CRI: 3500K / 90 CRI
LUMENS: 2988 Lm
WATTS: 27.6 W
EFFICACY: 108 Lm/W
TEST NO.: P559652
0% UP /100% DOWN

0° (II) – – – –
90° (⊥) ———

FILE NAME:
DL2-WB-M-0U-075D-935-UNV-STD-W-4.ies
CCT/CRI: 3500K / 90 CRI
LUMENS: 3263 Lm
WATTS: 27.6 W
EFFICACY: 118 Lm/W
TEST NO.: P559736
0% UP /100% DOWN

0° (II) – – – –
90° (⊥) ———

Note: Refer to IES files for more product data.

Color Data (3500K)

		90CRI
TM-30-15	R_f	91.3
	R_g	98.4
CRI/CIE	R_a	94.6
	R_9	70.2

CCT 3435   Duv 0.0000
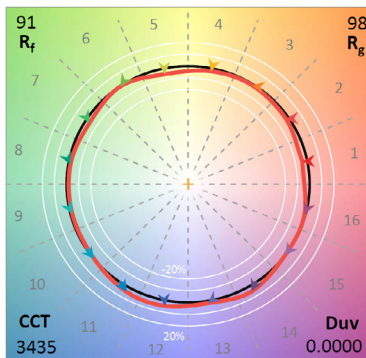
Color Data (4000K)

		90CRI
TM-30-15	R_f	89.7
	R_g	97.2
CRI/CIE	R_a	93.7
	R_9	68.1

CCT 4008   Duv 0.0007
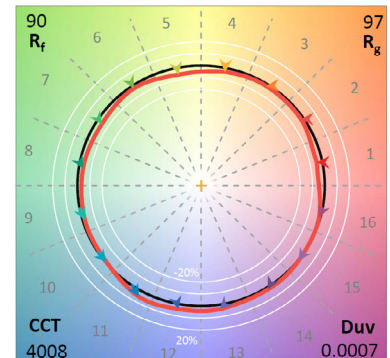
Luminance Data

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - Black Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	8851	13345	18250	22995
55	1012	1575	2025	2559
65	0	0	0	38
75	0	0	0	0
85	0	0	0	0

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - White Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	10220	15010	20554	25071
55	1912	2897	3797	4809
65	802	1221	1641	2023
75	748	1184	1558	1932
85	740	1110	1296	1666

Note: Refer to IES files for more product data.

Nominal Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) [1]	Theoretical L70 (Hours) [2]
25°C	>85%	>135,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

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Energy and Performance Data - Black Baffle

Discreet Surface Performance (3500K)							Glare
Lumen Package	Lumens/ft Up	Lumens/ft Down	Lumens/ft Total	W/ft Total	Lm/W	Distribution (up%/down%)	UGR (1-2)(4-6)
0U-050D	0	502	502	4.5	111	0%/100%	2
0U-075D	0	748	748	6.9	108	0%/100%	3.4
0U-100D	0	999	999	9.5	105	0%/100%	4.4
0U-125D	0	1250	1250	12.5	100	0%/100%	5.1
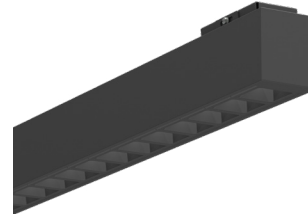
Energy and Performance Data - White Baffle

Discreet Surface Performance (3500K)							Glare
Lumen Package	Lumens/ft Up	Lumens/ft Down	Lumens/ft Total	W/ft Total	Lm/W	Distribution (up%/down%)	UGR (1-2)(4-6)
0U-050D	0	549	549	4.5	121	0%/100%	9.6
0U-075D	0	816	816	6.9	118	0%/100%	11.1
0U-100D	0	1091	1091	9.5	115	0%/100%	12
0U-125D	0	1363	1363	12.5	109	0%/100%	12.8

KEY:

	Meets WELL v2
TEXT	Meets LEED v4.1

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane

(2) For other UGR data for room or reflective ceiling plans please see technical data on website.

(3) Luminance measured at 45-90 degrees from nadir.

(4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)

(5) UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text. (UGR < 19, Luminance < 7,000, Indirect-only)

(6) For technical data of other configurations and most accurate data please see the IES files in the photometric section on website or click link at top-right

Lumen Adjustment & Melanopic Ratios

	3000K	3500K	4000K
CRI	90+	90+	90+
Lumen Multiplier	0.962	1.000	1.058
Melanopic Ratio		0.645	0.75

Lumen Adjustment Example Calculation:

WB-M-025U-075D / 3500K / 90 CRI
Lumen Output selected = 1069 lms/ft

4000K / 90 CRI Desired
Lumen Adjustment Factor = 1.058

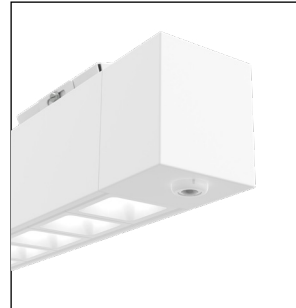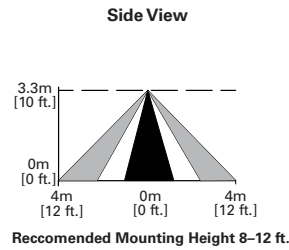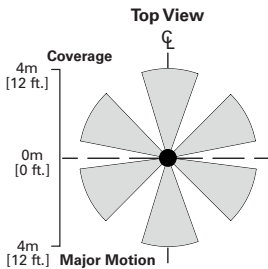Adjusted Lumen Output = 1069 lms/ft x 1.058 = 1131 lms/ft

🚀 Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune
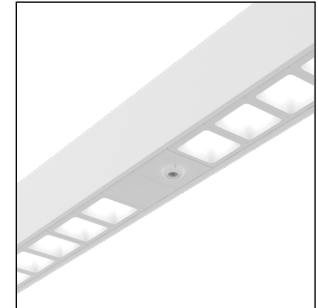
**Connected Systems
CLICK HERE**

The Discreet with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Discreet 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.

Top View

Coverage

4m [12 ft.]

0m [0 ft.]

4m [12 ft.] Major Motion

Side View

3.3m [10 ft.]

0m [0 ft.]

4m [12 ft.]   0m [0 ft.]   4m [12 ft.]

Reccomended Mounting Height 8–12 ft.

Discreet Surface with Integrated Sensor - Endcap

Discreet Surface with Integrated Sensor - Center Mount

	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

devices → areas → floors → buildings

Default Integral Sensor Placement

≤8ft Individual

10ft Continuous (6' + 4')

14ft Continuous (8' + 6')

16ft Continuous (8' + 8')

>16ft Continuous* (8' + 4' or 6' end unit)

>16ft Continuous* (8' max unit)
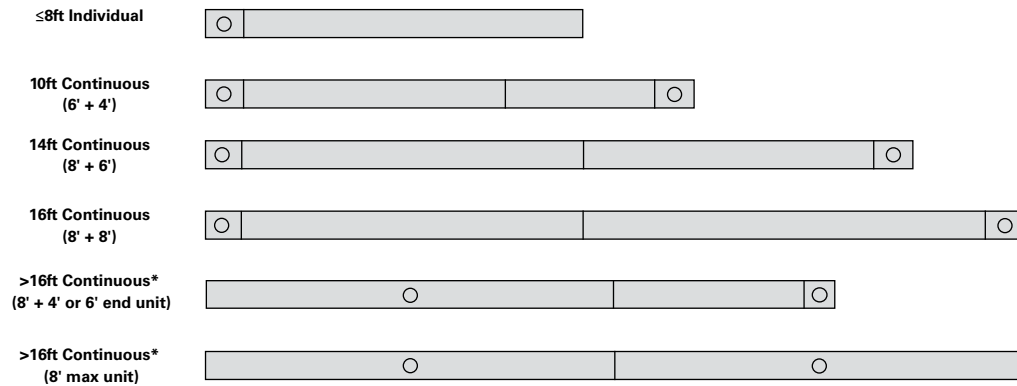
○ Standard Sensor with Luminaire Control
⊗ Auxiliary Sensor used for Sensor Coverage (wireless systems only)

Note: *See Standard Row Configuration table on Page 4.
8' sensor spacing for continuous runs using 8' max units.
4' and 6' units at the ends of runs will utilize sensor end caps.

Standard Row Configurations

8' Unit Max

Fixture Length	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
4'	1			1	1			1	1			1	1			1	1			1	1			1
6'		1		1		1		1		1		1		1		1		1		1		1		1
8'			1		1	1	2	1	2	2	3	2	3	3	4	3	4	4	5	4	5	5	6	5

Fixture Length	52'	54'	56'	58'	60'	62'	64'	66'	68'	70'	72'	74'	76'	78'	80'	82'	84'	86'	88'	90'	92'	94'	96'	98'	100'
4'	1			1	1			1	1			1	1			1	1			1	1			1	1
6'		1		1		1		1		1		1		1		1		1		1		1		1	
8'	6	6	7	6	7	7	8	7	8	8	9	8	9	9	10	9	10	10	11	10	11	11	12	11	12

Driver Availability

Lumen Package	'STD' 0-10V, UNV Qty of Drivers			'5LT' DALI / 'SR' Qty of Drivers			'LH' Lutron Qty of Drivers			'STD' 0-10V, 347V Qty of Drivers		
	4'	6'	8'	4'	6'	8'	4'	6'	8'	4'	6'	8'
0U-050D	1	1	1	1	1	1	1	1	1	1	1	1
0U-075D	1	1	1	1	1	1	1	1	1	1	1	1
0U-100D	1	1	1	1	1	1	1	1	1	1	1	1
0U-125D	1	1	2	1	1	2	1	1	2	1	1	2

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