

DESCRIPTION

The Jaylum LED is a timeless direct/indirect pendant featuring crisp modern lines and the latest solid state lighting and driver technology. This highly efficient luminaire will accompany almost any décor while meeting today's increasingly stringent energy requirements. The Jaylum series may be mounted individually or continuously with 4 and 8 foot modular sections and is suited for open offices, private offices, conference rooms, reception areas, and educational facilities. Companion wall mount and sconce fixtures are also available to create cohesive architectural spaces.

SPECIFICATION FEATURES

Construction

Low profile housing and integral high reflectance gear tray constructed from die-formed 20 gauge cold rolled steel forming a 8-1/2" x 1-1/2" profile.

End Caps

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

Light Engine

LED's are available in 3000K, 3500K or 4000K with CRI options of either ≥80CRI or ≥90CRI. Lumen output will be affected - please refer to the lumen adjustment factor table.

Electrical

Long-Life LED system coupled with integral electronic drivers to deliver optimal performance. Standard with 120-277V 0-10V dimming drivers (1% standard). 347V 0-10V drivers are available. Dimming wires come standard but can be capped in the field for standard switched operation. A single power feed drop supplied as standard.

Controls

Options compatible with Eaton's Connected Lighting Systems:

- WaveLinx sensor
- LumaWatt Pro sensor
- Fifth Light DALI driver

Catalog #		Type
Project		
Comments		Date
Prepared by		

Refer to the Connected Lighting options page and ordering information for more details.

Mounting

Aircraft cable mounts on 4'-0" and 8'-0" centers. Fixture is balanced with cross cable to allow for minimal leveling and simple installation. 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. Refer to installation instructions for various ceiling interface details.

Finish

Electrostatically applied polyester powder coat paint in white, silver, or black. RAL custom colors are available.



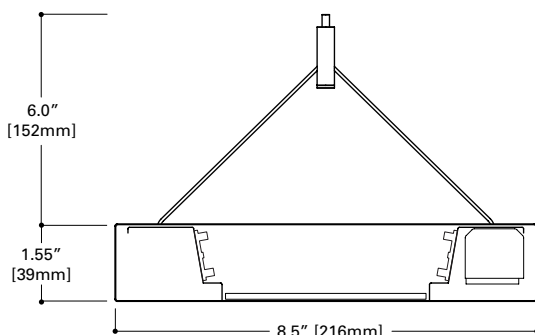
JAYLUM - J3

LED

Suspended
Indirect / Direct

cULus - 1598
Damp Location Listed
LM79/LM80 Compliant
ROHS Compliant

VividTune
color tuning solutions



ORDERING INFORMATION

Sample Number: J3-CL-40L835-1D-UNV-STD-SWPD1-W-AC48-T1-16

Series	Indirect Shielding	Direct Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Number of Circuits	Additional Circuiting
J3 = Jaylum Suspended Indirect/Direct QS-J3 = Jaylum Suspended Indirect/Direct, Quick Ship	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
Shaded options indicate valid quick ship selections. See Quick Ship Terms and Conditions for more information.	More distributions are available. See Jaylum J2 series.		Refer to performance table on Page 3 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
120 = 120V 277 = 277V UNV = Universal (120V-277V) 347 = 347V	STD = Standard 0-10V (1%-100%) SR = Sensor Ready (5%-100%) 5LT = Fifth Light DALI (5%-100%) LH = Lutron HiLume 1% EcoSystems L5 = Lutron 5-Series 5% EcoSystems W2A = White Tuning, 2ch, 0-10V Intensity and CCT Control	SWPD1 = WaveLinx Wireless Integrated Sensor LWIPD1 = LumaWatt Pro Wireless Integrated Sensor SVPD1 = 0-10V Stand-alone Integrated Sensor	ILB12 = 12-watt, 120V-277V Iota ILB-SL-CP12 EPC = UL924 Bypass Relay	W = White S = Silver B = Black CC = Custom Color	Adj. Cable AC48 = 48" AC120 = 120" AC240 = 240" AC300 = 300" AC360 = 360"	T1 = 1" T-Bar T9 = 9/16" T-Bar TS = Slotted T-Bar ST = Structure JB = 4" Octagonal J-Box	4 = 4 ft 8 = 8 ft XX = Specify Row Length
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.	SW 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.			White mounting hardware standard; for black mounting hardware, add "-B" after ceiling type.	Standard row configurations over 8' consist of 4' and 8' luminaires.	

Lengths

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

Shielding

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.

Lumen Maintenance

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

Emergency Options

Optional 120V-277V integral emergency battery pack is 12W maximum, 90 minute output, and powers a 4-foot section. Test switch/indicator button located on the top 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 12 = 1200 lumens). Emergency section wiring and UL 924 emergency/generator transfer options available – see ordering information for details.

Integrated Sensing and Control Systems

Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please consult WaveLinX and LumaWatt Pro system pages for additional details and compatibility. Consult Marketplace Options - Lutron system pages for

additional details and compatibility. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com.

Weight

3.8 lbs per foot.

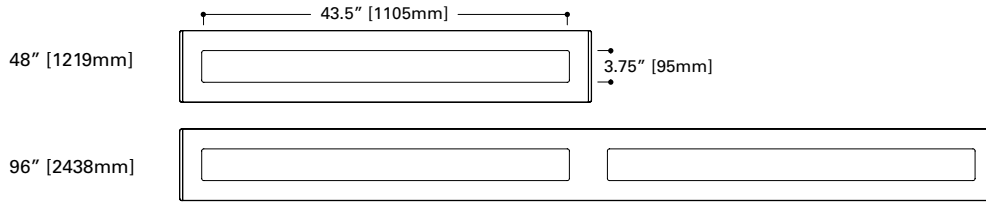
Compliance

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

Warranty

Five year warranty.

FIXTURE LENGTHS



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.



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.

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

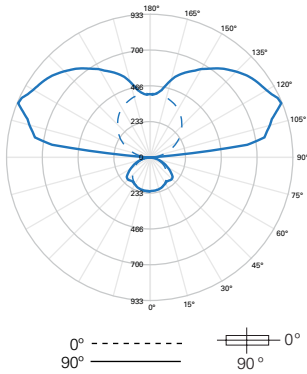
3500K / 90 CRI Desired

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



FILE NAME: J3-UL-40L835-1D-UNV-4.IES

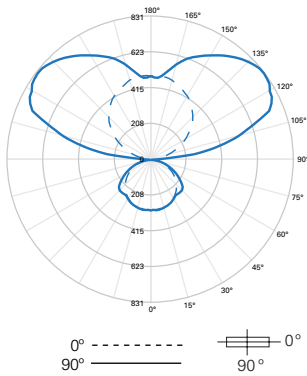
LAMP: (LD5) LED 3500K
LUMENS: 4033 Lm
WATTS: 25.9 W
EFFICACY: 156 Lm/W
TEST NO.: P253309
 80% UP / 20% DOWN

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	177	4.4
0°-90°	761	18.9
90°-130°	2040	50.6
90°-180°	3272	81.1
0°-180°	4033	100

LUMINANCE DATA (cd/M²)

Vertical Angle	0°	45°	90°
45°	1816	1885	2305
55°	1780	2210	2382
65°	1754	2221	2221
75°	1589	1973	2035
85°	1323	2267	1888



FILE NAME: J3-CL-40L835-1D-UNV-4.IES

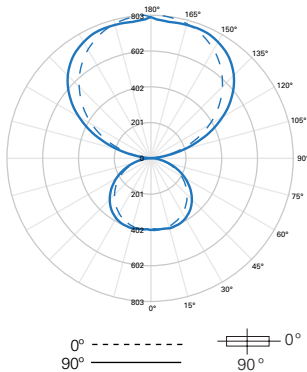
LAMP: (LD5) LED 3500K
LUMENS: 3862 Lm
WATTS: 25.9 W
EFFICACY: 149 Lm/W
TEST NO.: P253327
 75% UP / 25% DOWN

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	236	6.1
0°-90°	985	25.5
90°-130°	1561	40.4
90°-180°	2877	74.5
0°-180°	3862	100

LUMINANCE DATA (cd/M²)

Vertical Angle	0°	45°	90°
45°	2408	2475	2898
55°	2364	2804	2968
65°	2275	2723	2762
75°	2072	2437	2496
85°	1805	2536	2175



FILE NAME: J3-FL-40L835-1D-UNV-4.IES

LAMP: (LD5) LED 3500K
LUMENS: 3865 Lm
WATTS: 25.9 W
EFFICACY: 149 Lm/W
TEST NO.: P26582
 65% UP / 35% DOWN

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	331	8.6
0°-90°	1300	33.6
90°-130°	1021	26.4
90°-180°	2565	66.4
0°-180°	3865	100

LUMINANCE DATA (cd/M²)

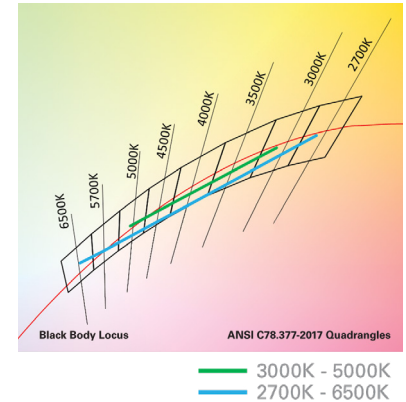
Vertical Angle	0°	45°	90°
45°	3285	3542	3720
55°	3219	3477	3646
65°	3061	3260	3445
75°	2649	2811	2948
85°	1842	1916	2008

COLOR DATA (3500K)

		80CRI	90CRI
TM-30-15	R _f	82.5	92.4
	R _g	96.0	100.6
CRI/CIE	R _a	83.1	96.1
	R ₉	14.0	72.1

Jaylum (J3) with VividTune Tunable White

VividTune tunable white luminaires from Eaton 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.



Energy and 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

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

$$\text{Lumen Adjustment Factor} = 0.919$$

$$\text{Light Output Per Foot} = 1009 \text{ lm/ft} \times 0.919 = 927 \text{ lm/ft}$$

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

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.eaton.com/lighting for tunable white application guides.

