Corelite

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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

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.

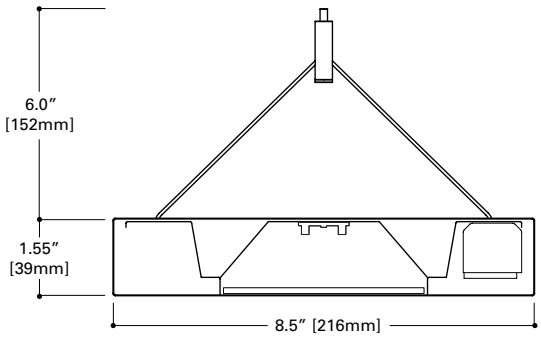
Electrical
Long-Life LED system coupled with integral electronic drivers to deliver optimal performance. Standard with 120-277V 0-10V dimming drivers (1% standard). 347V 0-10V drivers are available. Dimming wires come standard but can be capped in the field for standard switched operation. A single power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

Controls
Options compatible with Eaton's Connected Lighting Systems:
- WaveLinx sensor
- LumaWatt Pro sensor
- Fifth Light DALI driver

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 - J2

LED

Suspended
Direct / Indirect

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

VividTune color tuning solutions

ORDERING INFORMATION

Sample Number: J2-WL-40L835-1D-UNV-STD-SWPD1-W-AC48-T1-16

Series	Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Number of Circuits	Additional Circuiting	Input Voltage
J2 = Jaylum Suspended Direct/Indirect **QS-J2** = Jaylum Suspended Direct/Indirect Quick Ship	**WL** = Frosted Lens (25% Up / 75% Dn)	**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)	**8** = 80 CRI **9** = 90 CRI	**30** = 3000K **35** = 3500K **40** = 4000K **3050** = Tunable White 3000K-5000K **2765** = Tunable White 2700K-6500K	**1** = Single Circuit	**D** = None (Default Dimming) **E** = Emergency Circuit **S** = Secondary Circuit **N** = Emergency + Secondary Circuit	**120** = 120V **277** = 277V **UNV** = Universal (120V-277V) **347** = 347V
Shaded options indicate valid quick ship selections. See Quick Ship Terms and Conditions for more information.	Additional distributions are available. See Jaylum J3 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.	Integral 347V driver with STD 0-10V option only. Factory supplied 347V remote transformer for all other driver options.

Driver/Dimming Options	Integral Sensor	Integral Emergency	Top Cover (Optional)	Finish	Suspension Length	Ceiling Type	Run Length
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** = Tunable White, 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	**DC** = Dust Cover **DLED** = Downlight Kit (85% DOWN)	**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
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.		Dust Cover cannot be combined with DLED kit.		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.

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). 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.

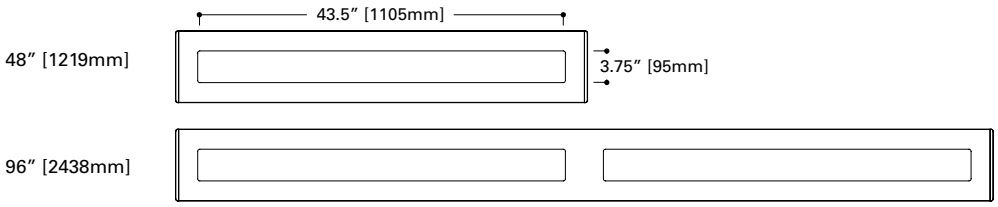
Integrated Sensing and Control Systems
Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please consult WaveLinx and LumaWatt Pro system pages for additional details and compatibility. Consult Marketplace Options - Lutron system pages for additional details and compatibility. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com.

Weight
3.5 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.

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

J2 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
J2-WL	20L	1977	494	14.9	3.7	133	25%	75%
	30L	3012	753	23.1	5.8	130		
	40L	4075	1019	32.6	8.2	125		
	50L	4961	1240	42.9	10.7	116		
J2-WL w/ DLED	20L	1820	455	14.9	3.7	122	13%	87%
	30L	2773	693	23.1	5.8	120		
	40L	3752	938	32.6	8.2	115		
	50L	4567	1142	42.9	10.7	106		

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

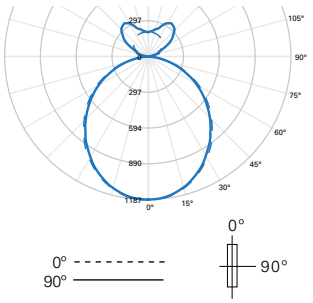
3500K / 90 CRI Desired
Lumen Adjustment Factor = 0.861

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

PHOTOMETRICS



FILE NAME: J2-WL-40L835-1D-UNV-4.IES

LAMP: (LD5) LED 3500K

LUMENS: 4075 Lm

WATTS: 32.6 W

LPW: 125 Lm/W

TEST NO.: P253284

25% UP / 75% DOWN

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	890	21.8
0°-90°	3060	75.1
90°-130°	488	12.0
90°-180°	1016	24.9
0°-180°	4075	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	8181	8063	7946
55°	7679	7621	7361
65°	7000	6884	6687
75°	5908	5843	5653
85°	3813	4007	3813

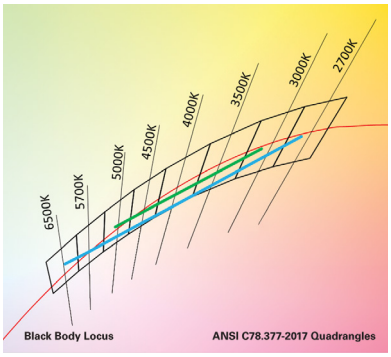
COLOR DATA (3500K)

		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

VividTune
color tuning solutions

Jaylum (J2) 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.



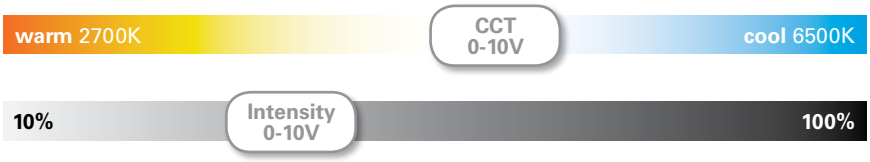
Energy and Performance Data

Tunable White - J2 LED Light Level Outputs (3500K, 80 CRI)						
Series	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
J2-WL	20L	2043	511	17	4.3	120
	30L	2974	744	25.8	6.5	115
	40L	3959	990	36.7	9.2	108
	50L	5009	1252	50.7	12.7	99
J2-WL w/ DLED	20L	1881	470	17	4.3	111
	30L	2739	685	25.8	6.5	106
	40L	3645	911	36.7	9.2	99
	50L	4612	1153	50.7	12.7	91

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

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.



Example of Lumen Adjustment Calculation

J2-WL-40L93050 ...
at 90 CRI tuned to 4000K

Lumen Adjustment Factor = 0.919

Light Output Per Foot=
990 lm/ft x 0.919 = 910 lm/ft

$$\text{Efficacy} = \frac{910\ lm}{9.2W} = 99\ lm/W$$

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