

DESCRIPTION

The perfect complement to the Jaylum pendant luminaire, the Jaylum Wall LED features crisp modern lines in a small non-obtrusive form factor. This highly efficient LED luminaire will accompany almost any décor while meeting today's increasingly stringent energy requirements. The Jaylum wall can be mounted over standard 2x4 inch J-Boxes for individual or continuous configurations using 4 and 8 foot modular sections while maintaining ADA compliance. The series is an excellent choice for commercial office spaces, schools, reception areas, corridors and restrooms.

SPECIFICATION FEATURES

Construction

Low profile housing and integral gear tray constructed from die-formed 20 gauge cold rolled steel forming a 4" x 1-1/2" ADA compliant 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.

Controls

Options compatible with Cooper Lighting Solutions' Connected Lighting Systems:

- Fifth Light DALI driver

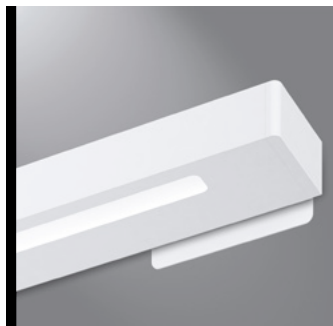
Refer to the Connected Lighting options page and ordering information for more details.

Mounting

Fixture mounts directly to structure over a 2 x 4 inch standard electrical box mounted horizontally into the wall. Refer to installation instructions for details. All sections are continuously wired with push-in connectors for fast installation. Fixtures can be joined for straight continuous runs.

Finish

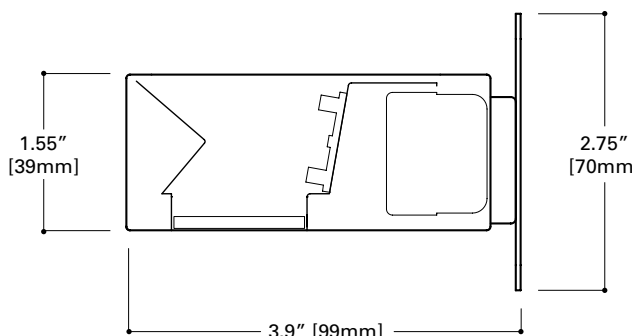
Electrostatically applied polyester powder coat paint in white, silver, or black. RAL custom colors are available.

JAYLUM - JW
LED

Wall Mounted
Direct / Indirect

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

VividTune
color tuning solutions



ORDERING INFORMATION

Sample Number: JW-WL-40L835-1D-UNV-STD-W-SU-WA-16

Series	Shielding	Lumen Package Nominal per 4' section	CRI	Color Temperature	Number of Circuits	Additional Circuiting
JW = Jaylum Wall Direct/Indirect	WL = Frosted Lens (75% Up / 25% Dn)	20L = 2,000 Lms (500 lms/ft) 30L = 3,000 Lms (750 lms/ft) 40L = 4,000 Lms (1,000 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
		Refer to performance table on Page 2 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.	

Input Voltage	Driver/Dimming Options	Finish	Mounting	Run Length
120 = 120V 277 = 277V UNV = Universal (120V-277V) 347 = 347V	STD = Standard 0-10V (1%-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	W = White S = Silver B = Black CC = Custom Color	SU-WA = Wall Mount 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.				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. Top frosted lens cover comes standard with all LED wall configurations to eliminate striations and harsh cutoffs.

Lumen Maintenance

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

Emergency Options

Integral emergency options not available

Integrated Sensing and Control Systems

Integrated sensor options not available.

Weight

2.0 lbs per foot.

Compliance

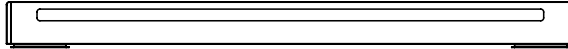
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, damp location listed, and RoHS compliant. LED modules comply with IESNA LM-79 and LM-80 standards.

Warranty

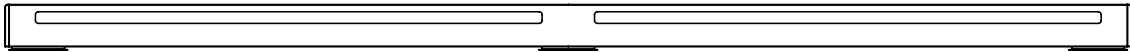
Five year warranty.

FIXTURE LENGTHS

48" [1219mm]



96" [2438mm]



ENERGY AND PERFORMANCE DATA

JW 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
JW-WL	20L	1988	497	16.2	4.1	123	75%	25%
	30L	2974	744	24.9	6.2	119		
	40L	3999	1000	35.7	8.9	112		

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 = 1000 lms/ft

3500K / 90 CRI Desired

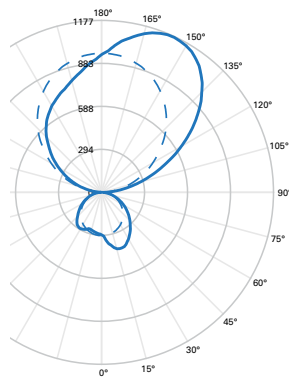
Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 1000 lms/ft x 0.861 = 861 lms/ft

LUMEN MAINTENANCE

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

PHOTOMETRICS



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

LAMP: (LD5) LED 3500K

LUMENS: 3999 Lm

WATTS: 35.7 W

EFFICACY: 112 Lm/W

TEST NO.: P253360

75% UP / 25% DOWN



ZONAL LUMENS SUMMARY

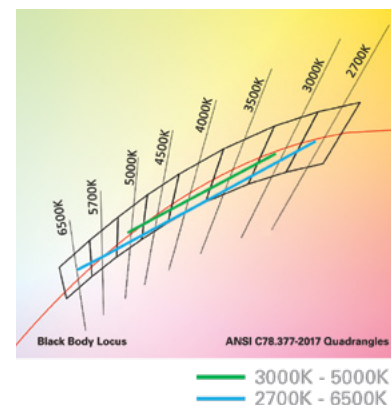
Zone	Lumens	% Fixture
0°-30°	263	6.6
0°-90°	1042	26.1
90°-130°	1130	28.3
90°-180°	2957	73.9
0°-180°	3999	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6196	6310	4681
55°	5771	5827	4584
65°	5221	5336	4454
75°	4512	4637	4263
85°	3720	4090	4090

Jaylum (JW) 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.



Energy and Performance Data

Tunable White - JW LED Light Level Outputs (3500K, 80 CRI)						
Series	Lumen Package	Delivered Lumens		Wattage		Efficacy LPW
		4FT	Per FT	4FT	Per FT	
JW-WL	20L	1988	497	16.2	4.1	123
	30L	2974	744	24.9	6.2	119
	40L	3999	1000	35.7	8.9	112

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	1.030	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.cooperlighting.com for tunable white application guides.



Example of Lumen Adjustment Calculation

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

Lumen Adjustment Factor = 0.919

Light Output Per Foot =
 $1000 \text{ lm/ft} \times 0.919 = 919 \text{ lm/ft}$

Efficacy = $\frac{919 \text{ lm}}{8.9 \text{ W}} = 103 \text{ lm/W}$