Orbit II 02DS

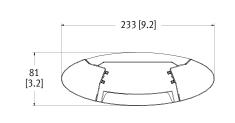
LED . Pendant













CAT #:	
PREP BY:	
DATE:	
PROJECT:	
TYPE:	
NOTES:	

ORDERING LOGIC

		Oį	otics							
O2DS			SBO							
Color To	emp Length	Up	Down	Finish	LL / Dri	ver Circuitry	Mounting	Voltage	IC	
Color Temp	Optics Up		Light	Level (LL) / [Oriver	Circu	itry	Integrated	Control (IC)	
2L30K = 3000K	P = Perforated		Fiv	kture Lumer	ıc	1 = 1 Circuit		1 = 120 V		
2L35K = 3500K	C = Clear Dust Cover		*Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.		EM = Emergency/Night Light		2 = 277 V			
2L40K = 4000K	= Open Top (leave space empty)				B = Battery		3 = 347 V			
	Optics Down		0-10V Dimming (Standard) 3500k L1 = 3123		Mounting		4 = UNV (120-277 V)			
Length	SBO = Solid Cross Blade E w/ Opal Overlay	Baffle				PA = Pendant Aircraft Cable		Integrated (Controls (IC)	
4 = 4 ft	Finish			L2 L3			PT = Pendant Ai T-Bar	rcraft Cable for	_ = None (leave	space empty)
8 = 8 ft	W = White		L4 = 10932 Based on 4ft sections with Open Top.		SS = Solid Stem	ı	D = Daylight Se	nsor		
R = Continuous Rows (Consult factory)	C = Custom Finish Specify RAL#:				Select HANGER LENGTH and		ond 0 = Occupancy Sensor			
(consult factory)	эресіју кас#:					HANGER FINISH on p2		DO = Daylight/Occupancy Senso		

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: Precision-formed 22 gauge steel bodies with die cast end-caps allow optimal performance dust covers keeps fixtures and lamps clean.

Optical System: Computer modeled, formed steel white ballast covers double as reflector system providing wide, horizontal indirect distribution. Precision reflectors allow for superior efficiencies of luminous performance.

CRI: 83 (3500K)

Lumen Maintenance: At an ambient

operating temperature of 25°C the LED lifetime expectancy => 50 000hrs at L70. **Finish:** White, baked, powder coated

polyester finish. 91% reflectance. For custom finish, consult factory.

Weight: 2.1 kg/300mm [4.6 lb/ft] Mounting: Pendant: Aircraft cable field adjustable is standard with Easy Adjust Quick Connect Cable Grips that are selflocking tamper resistant (contact factory for custom lengths). All mounting has been independently tested to meet stringent

safety requirements.

Solid Stem: Solid stem 13mm (1/2") OD. Factory prewired with easy wire quick connect • LDE1 Hi-lume 1% -H EcoSystem LED Driver

Drivers: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range Power factor is >90% with a Class 2 rating.

Options: Consult factory for Lutron driver

• L3DAE Hi-lume 1% EcoSystem LED Driver

- L3DA3W Hi-lume 1% 3-wire LED Driver
- LTEA2W Hi-lume 1% 2-wire LED Driver
- LDE5 5-Series EcoSystem LED Driver
- FCJ010 EcoSystem to 0-10V Wireless RF **Approvals:** Certified to NRTL and IES testing standards. DLC Listed (check QPL

for exact listing). All components are UL Recognized or Listed. LM79/LM80 compliant.

Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

LUMINAIRE WATTAGE AND OUTPUT SPECIFICATION

Light Level	Wattage	Lumens Delivered	Efficacy (LPW)
L1	27	3123	114
L2	35	3983	114
L3	48	5704	119
L4	96	10932	114

APPROVALS: Signature _

Date _

FILE NAME: Orbit_II_02DS_LED

20170503

1.800.621.6785 | T 519.822.4381 | F 519.822.4589 www.metalumen.com



FEATURES



COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from

concept through implementation. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide both the functionality and performance of top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.



EDULUMEN // Educational Lighting Edulumen is a collection of premium luminaires that maximize experiences.

any educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Students challenge themselves throughout the day to achieve, and Metalumen is dedicated

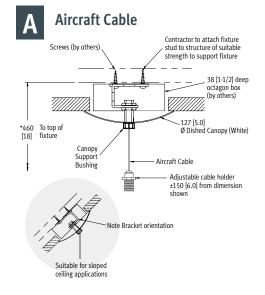
to this by creating sustainable environments that foster enhanced educational

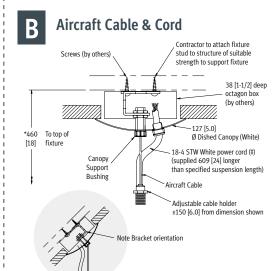


M E T A LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED

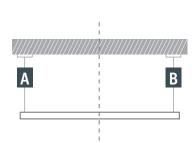
platform for any of your LED linear application.

HANGAR INFORMATION

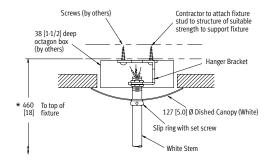




Suitable for sloped ceiling applications



Solid Stem



HANGER FINISH White Paint (Standard) Custom Specify RAL#:

Select Hanger Length:

SOLID STEM 1/2" OD STANDARD

Standard supplied length is 18" (460mm). Hangers will be supplied at closest length. All other lengths are considered custom unless otherwise stated.

untess otherwise stated.							
	IMPERIAL (in)	METRIC (mm)					
	12	305					
	15	380					
	18	460					
	21	533					
	24	610					
	27	685					
	30	760					
	33	840					
	36	915					
	39	990					
	42	1067					
	45	1145					
	48	1220					
Custom length:							

AIRCRAFT CABLE

Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated.

IMPERIAL (in) ME	TRIC (mm)					
12	305					
	505					
18	460					
24	610					
30	760					
36	915					
42	1067					
48	1220					
54	1372					
60	1525					
72	1830					
96	2440					
120	3050					
144	3660					
Custom length:						

FILE NAME: Orbit_II_02DS_LED

20170503

PHOTOMETRIC DATA - 3500k



File Name: 02DS-2L35K-4-SB0-L3

Luminaire Lumens: 5704
Total Watts: 48 Efficacy: 119 lms/W Optics Up:

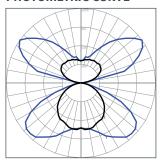
Open Top Solid Cross Blade Baffle with Opal Inlay Optics Down:

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC 80				70			50				
RW	70	50	30	10	70	50	30	10	50	30	10
RCR											
0	106	106	106	106	98	98	98	98	81	81	81
1	97	92	88	85	89	85	82	79	71	69	66
2	88	80	74	69	80	74	68	64	62	58	54
3	80	70	63	57	73	64	58	53	54	49	45
4	73	62	53	47	66	57	50	44	48	42	38
5	66	55	46	40	61	50	43	37	42	37	32
6	61	49	40	34	56	45	37	32	38	32	28
7	56	44	35	30	51	40	33	28	34	28	24
8	52	39	31	26	47	36	29	24	31	25	21
9	48	36	28	23	44	33	26	21	28	22	19
10	45	33	25	20	41	30	24	19	26	20	17

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical	Horizontal Angle					
Angle	0	45	90			
45	5769	7729	12118			
55	5361	7657	13953			
65	4843	5940	12168			
75	4160	3806	5515			
85	3756	2796	2687			

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CANDLE DISTRIBUTION

Vertical	Horizontal Angle							
Angle	0	22.5	45	67.5	90			
0	646.26	646.26	646.26	646.26	646.26			
5	671.95	644.84	649.3	650.83	659.34			
10	672.27	658.92	632.98	662.52	665.84			
15	661.2	644.28	644.03	674.86	707.92			
20	628.98	619.09	662.31	725.22	757.99			
25	605.94	610.62	678.56	777.02	839.35			
30	600.94	587.2	697.19	822.1	898.01			
35	566.56	571.59	693.32	869.44	949.8			
40	521.67	554.79	690.7	878.14	1016.75			
45	479.04	504.95	654.2	875.54	1032.15			
50	421.54	447.94	608.99	850.28	1027.59			
55	361.55	383.68	530.63	778.09	975.46			
60	297.68	301.85	428.01	666.32	834.39			
65	241.11	234.29	307.99	488.89	639.16			
70	176.51	179.34	194.3	303.28	398.53			
75	127.41	124.13	124.91	150.79	185.01			
80	79.08	79.37	75.92	78.49	85.16			
85	39.55	37.11	35.77	36.96	36.39			
90	5.68	6.92	7.02	7.38	7.07			
95	33.72	51.47	19.77	18.68	19.14			
100	102.12	215.38	267.14	170.07	104.03			
105	168.8	368.06	494.61	603.3	647.72			
110	225.14	463.04	660.37	746.15	790.24			
115	278.7	498.74	797.76	879.91	921.83			
120	322.31	506.85	831.66	1010.83	1026.72			
125 130	353.53 366.07	490.35 474.45	784.56 738.48	1004.18 928.58	1075.97 1001.76			
135	379.74	446.03	680.65	855.13	910.68			
140	367.27	446.03	618.71	765.06	821.68			
145	369.56	423.62	536.22	673.91	721.03			
150	372.72	403.81	470.8	569.54	610.75			
155	360.14	386.47	414.5	469.9	508.68			
160	359.85	377.84	397.01	401.71	421.26			
165	345.64	353.63	393.2	401.71	381.41			
170	342.95	331.85	347.39	368.23	384.66			
175	326.94	325.6	314.74	321.86	329.62			
180	320.93	320.93	320.93	320.93	320.93			
100	120.77	120.77	120.73	120.73	120.77			