

Orbit II O2DS

LED . Pendant



CAT #:

PREP BY:

DATE:

PROJECT:

TYPE:

NOTES:

ORDERING LOGIC

Optics																						
O2DS			SBO																			
Color Temp		Length	Up	Down	Finish	LL / Driver	Circuitry	Mounting	Voltage	IC												
Color Temp		Optics Up		Light Level (LL) / Driver			Circuitry		Integrated Control (IC)													
2L30K = 3000K		P = Perforated		<div>Fixture Lumens</div> <div>*Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.</div> <table><tr><td>0-10V Dimming (Standard)</td><td>3500k</td></tr><tr><td>L1</td><td>= 3123</td></tr><tr><td>L2</td><td>= 3983</td></tr><tr><td>L3</td><td>= 5704</td></tr><tr><td>L4</td><td>= 10932</td></tr></table>			0-10V Dimming (Standard)	3500k	L1	= 3123	L2	= 3983	L3	= 5704	L4	= 10932	C = Clear Dust Cover		1 = 1 Circuit		1 = 120 V	
0-10V Dimming (Standard)	3500k																					
L1	= 3123																					
L2	= 3983																					
L3	= 5704																					
L4	= 10932																					
2L35K = 3500K				EM = Emergency/Night Light		2 = 277 V																
2L40K = 4000K		= Open Top (leave space empty)		B = Battery		3 = 347 V																
		Optics Down					Mounting		4 = UNV (120-277 V)													
Length		SBO = Solid Cross Blade Baffle w/ Opal Overlay					PA = Pendant Aircraft Cable		Integrated Controls (IC)													
4 = 4 ft		Finish					PT = Pendant Aircraft Cable for T-Bar		_ = None (leave space empty)													
8 = 8 ft		W = White					SS = Solid Stem		D = Daylight Sensor													
R = Continuous Rows (Consult factory)		C = Custom Finish Specify RAL#:		Based on 4ft sections with Open Top.			Select HANGER LENGTH and HANGER FINISH on p2		O = Occupancy Sensor													
									DO = Daylight/Occupancy Sensor													

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 self-locking 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 sections.

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.

Lutron Driver Options: Consult factory for Lutron LED driver options:

LHE H-Series Hi-lume 1% EcoSystem

LA2 A-Series Hi-lume 1% 2-wire

L5E 5-Series EcoSystem

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

FILE NAME: O2DS_LED_SPEC_SHEET_20190617

APPROVALS: Signature _____

Date _____

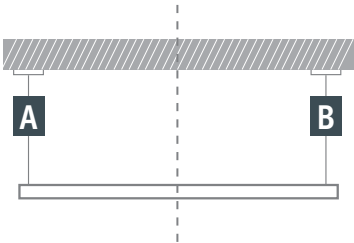
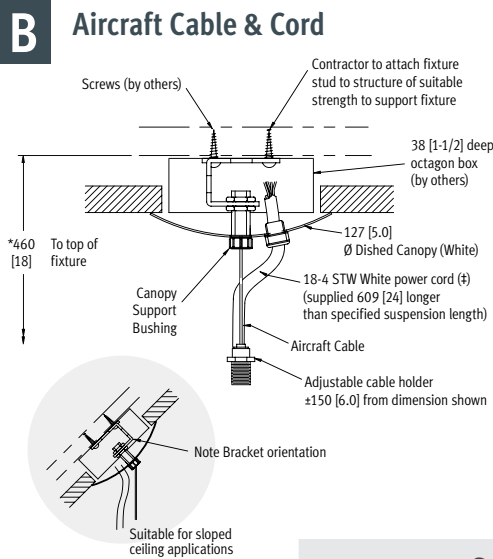
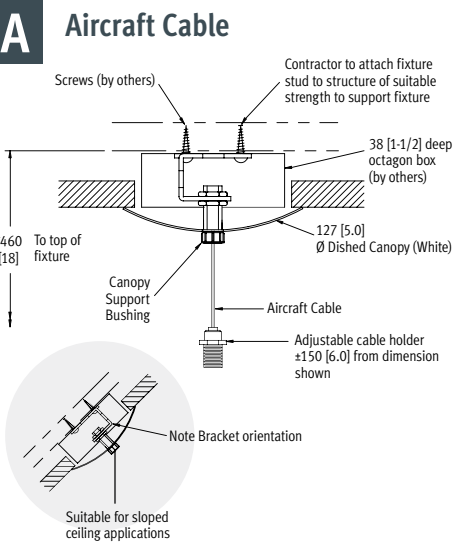
570 Southgate Drive, Guelph, Ontario N1G 4P6
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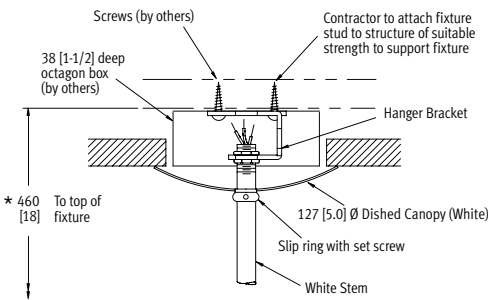
Metalumen

SPECIFICATION SHEET | PAGE 1

HANGAR INFORMATION



Solid Stem



HANGER FINISH

- ☐ White Paint (Standard)
- ☐ Custom Specify RAL#:

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.

	IMPERIAL (in)	METRIC (mm)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	15	380
<input type="checkbox"/>	18	460
<input type="checkbox"/>	21	533
<input type="checkbox"/>	24	610
<input type="checkbox"/>	27	685
<input type="checkbox"/>	30	760
<input type="checkbox"/>	33	840
<input type="checkbox"/>	36	915
<input type="checkbox"/>	39	990
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	45	1145
<input type="checkbox"/>	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)	METRIC (mm)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	18	460
<input type="checkbox"/>	24	610
<input type="checkbox"/>	30	760
<input type="checkbox"/>	36	915
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	54	1372
<input type="checkbox"/>	60	1525
<input type="checkbox"/>	72	1830
<input type="checkbox"/>	96	2440
<input type="checkbox"/>	120	3050
<input type="checkbox"/>	144	3660

☐ Custom length:

PHOTOMETRIC DATA - 3500k

L3

File Name: O2DS-2L35K-4-SBO-L3
Luminaire Lumens: 5704
Total Watts: 48
Efficacy: 119 lms/W
Optics Up: Open Top
Optics Down: Solid Cross Blade Baffle with Opal Inlay

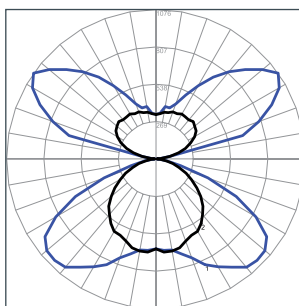
COEFFICIENTS OF UTILIZATION

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

CANDLE DISTRIBUTION

Vertical Angle	Horizontal 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	353.53	490.35	784.56	1004.18	1075.97
130	366.07	474.45	738.48	928.58	1001.76
135	379.74	446.03	680.65	855.13	910.68
140	367.27	423.62	618.71	765.06	821.68
145	369.56	410.83	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	401.95	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