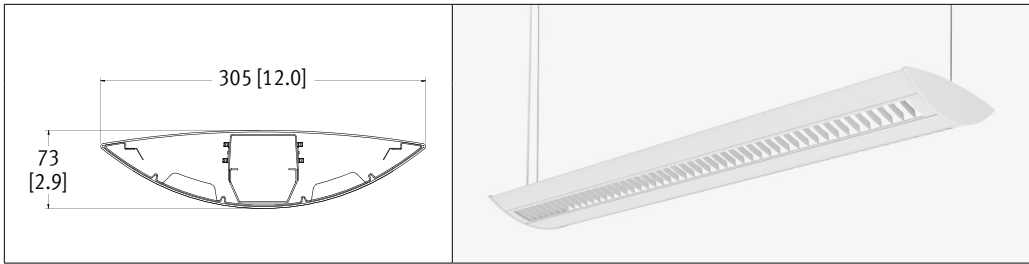


Horizon II O5B

LED . Pendant



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



ORDERING LOGIC

Optics																				
O5B	Color Temp	Length	Up	Down	Finish	LL / Driver	Circuitry	Mounting	Voltage	Controls										
Color Temp	Optics Up		Light Level / Driver			Circuitry		Voltage		Control										
2L30K = 3000K	- = Open Top - (leave space empty)		Fixture Lumens *Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.			1 = 1 Circuit		1 = 120 V		- = None (leave space empty)										
2L35K = 3500K	C = Clear Dust Cover		<table border="1"> <tr> <th>0-10V Dimming (Standard)</th> <th>3500k</th> </tr> <tr> <td>L1 =</td> <td>3230</td> </tr> <tr> <td>L2 =</td> <td>4119</td> </tr> <tr> <td>L3 =</td> <td>5898</td> </tr> <tr> <td>L4 =</td> <td>11304</td> </tr> </table> Based on 4ft sections.			0-10V Dimming (Standard)	3500k	L1 =	3230	L2 =	4119	L3 =	5898	L4 =	11304	EM = Emergency/Night Light		2 = 277 V		D = Daylight Sensor
0-10V Dimming (Standard)	3500k																			
L1 =	3230																			
L2 =	4119																			
L3 =	5898																			
L4 =	11304																			
2L40K = 4000K	Optics Down					B = Battery		3 = 347 V		O = Occupancy Sensor										
Length	SBO = Solid Cross Blade Baffle w/ Opal Overlay					Mounting		4 = UNV (120-277 V)		DO = Daylight/Occupancy Sensor										
4 = 4 ft	Finish					PA = Pendant Aircraft Cable														
8 = 8 ft	W = White					PT = Pendant Aircraft Cable for T-Bar														
12 = 12 ft	C = Custom Finish Specify RAL#:					SS = Solid Stem														
R = Continuous Rows (See p.3)						Select HANGER LENGTH and HANGER FINISH on p2														

SPECIFICATIONS

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

Housing: Low profile, elliptically shaped indirect/direct luminaire measuring 73mm [2.9"] high by 304mm [12.0"] wide. The structural integrity of the luminaire is provided by a formed aluminum 18 gauge, one piece, perforated aluminum screen, 16 gauge steel internal support brackets and ballast cover and die cast end caps. The fixture's formed ballast channel, in conjunction with the die cast end caps, offers strength for sections as long as a nominal 3660mm [12'-0"] with only two (2) hanger assemblies. As a result, straight alignment for continuous row installations can be maintained with a minimal amount

of supports. Metalumen's integrated tongue and groove electrical/mechanical interlock ensure straight runs for continuous run applications providing for a cost-effective installation. No disassembly of the product is required during installation.

Optical System: Computer modeled, formed painted steel materials are utilized to provide wide, horizontal indirect distribution.

CRI: 83 (3500K) (80 minimum)

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. Gloss 85%. Consult factory for custom colors/finishes.

Weight: 3.5 kg/300mm [6.8 lb/ft]

Mounting: Solid stem 13mm (1/2") OD or steel aircraft cable complete with a Quick-Grip field adjustable suspension system provides for quick and easy on site alignment (contact factory for custom lengths).

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.

Controls: Refer to Ordering Logic chart above.

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

LHE H-Series Hi-lume 1% EcoSystem

LAE A-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)	
	05K	05B	05K	05B	05K	05B
L1	27	27	3079	3230	113	118
L2	35	35	3924	4119	113	118
L3	48	48	5621	5898	118	123
L4	96	96	10775	11304	113	118

FILE NAME: O5B_LED_SPEC_SHEET_20190215

APPROVALS: Signature _____ Date _____

570 Southgate Drive, Guelph, Ontario N1G 4P6
Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

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

Metalumen

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

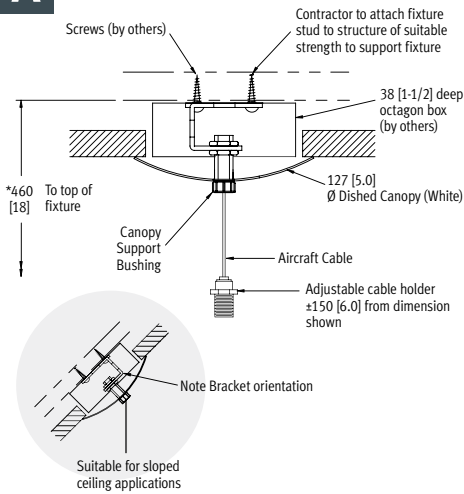
applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their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

EDULUMEN // Educational Lighting Edulumen is a collection of premium luminaires that maximize both the functionality and performance of 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

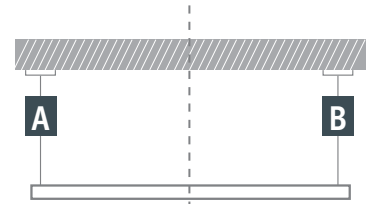
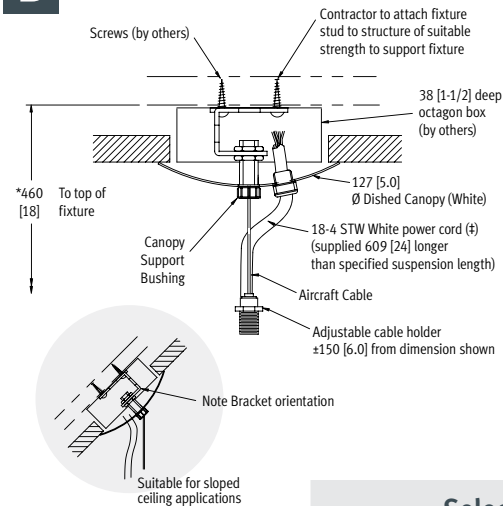
dedicated to this by creating sustainable environments that foster enhanced educational experiences. **META** LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.

HANGAR INFORMATION

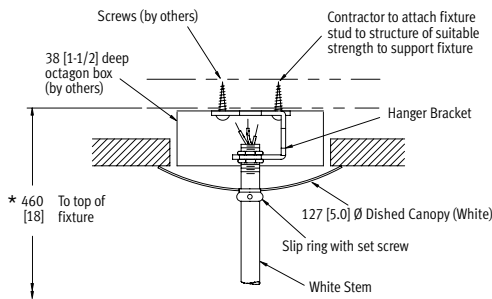
A Aircraft Cable



B Aircraft Cable & Cord



Solid Stem



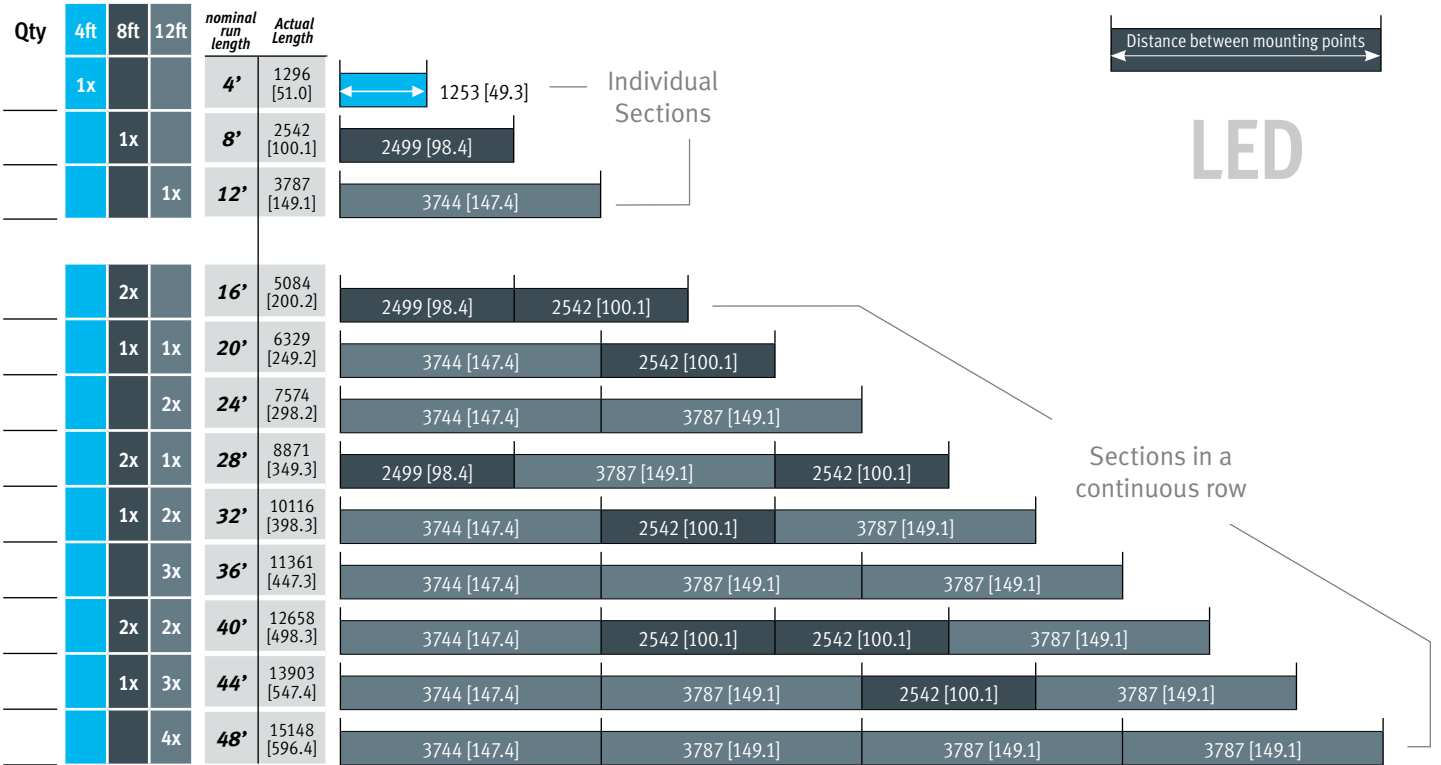
HANGER FINISH

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

Select Hanger Length below:

SOLID STEM 1/2" OD STANDARD			AIRCRAFT CABLE		
Standard supplied length is 18" (460mm). Hangers will be supplied at closest length. All other lengths are considered custom unless otherwise stated.			Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated.		
	IMPERIAL (in)	METRIC (mm)		IMPERIAL (in)	METRIC (mm)
<input type="checkbox"/>	12	305	<input type="checkbox"/>	12	305
<input type="checkbox"/>	15	380	<input type="checkbox"/>	18	460
<input type="checkbox"/>	18	460	<input type="checkbox"/>	24	610
<input type="checkbox"/>	21	533	<input type="checkbox"/>	30	760
<input type="checkbox"/>	24	610	<input type="checkbox"/>	36	915
<input type="checkbox"/>	27	685	<input type="checkbox"/>	42	1067
<input type="checkbox"/>	30	760	<input type="checkbox"/>	48	1220
<input type="checkbox"/>	33	840	<input type="checkbox"/>	54	1372
<input type="checkbox"/>	36	915	<input type="checkbox"/>	60	1525
<input type="checkbox"/>	39	990	<input type="checkbox"/>	72	1830
<input type="checkbox"/>	42	1067	<input type="checkbox"/>	96	2440
<input type="checkbox"/>	45	1145	<input type="checkbox"/>	120	3050
<input type="checkbox"/>	48	1220	<input type="checkbox"/>	144	3660
<input type="checkbox"/> Custom length:			<input type="checkbox"/> Custom length:		

MOUNTING - ROW CONFIGURATION - Pendant



PHOTOMETRIC DATA - 3500k

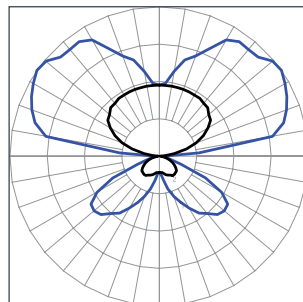
L3
File Name: O5B-2L35K-4-SB0-L3
Luminaire Lumens: 5898
Total Watts: 47.7
Efficacy: 123 lms/W
Optics Up: Open Top
Optics Down: Solid Cross Blade Baffle with Opal Overlay

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	101	101	101	101	90	90	90	90	69	69	69		
1	92	87	84	80	81	78	75	72	60	58	56		
2	83	76	70	65	74	68	62	58	52	49	46		
3	75	66	59	53	67	59	53	48	45	41	37		
4	69	58	50	44	61	52	45	40	40	35	31		
5	63	51	43	37	55	46	39	33	35	30	26		
6	57	45	37	32	51	40	34	29	31	26	22		
7	53	40	33	27	46	36	29	25	28	23	19		
8	49	36	29	24	43	33	26	21	25	20	17		
9	45	33	26	21	40	29	23	19	23	18	15		
10	42	30	23	18	37	27	21	16	21	16	13		

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	128.12	128.12	128.12	128.12	128.12
5	128.77	122.5	131.23	137.32	141.5
10	131.19	141.05	155.88	182.58	195.65
15	143.67	158.53	202.55	243.45	269.34
20	155.3	178.83	254.39	312.91	340.32
25	163.05	205.97	300.1	376.56	401.3
30	173.27	232.33	338.52	426.39	470.95
35	184.92	249.81	368.43	483.75	547.03
40	186.94	258.21	392.54	522.74	588.25
45	182.28	257	392.72	554.75	650.42
50	179.38	246.56	392.64	566.32	670.31
55	160.8	218.78	367.94	544.24	658.67
60	137.67	184.1	315.67	472.75	568.46
65	117.61	137.84	244.5	348.75	403.38
70	87.91	99.22	153.19	183.04	183.7
75	63.28	68.3	82.83	91.11	92.92
80	39.83	42.35	48.7	57.02	56.08
85	18.94	24.84	34.07	40.51	38.48
90	8.76	19.01	33.59	41.39	39.69
95	43.31	175.51	325.25	343.48	314.87
100	121.58	284.65	594.38	824.64	907.62
105	222.22	389.24	683.71	924.34	1015.55
110	310.43	498.22	757.47	978.43	1068.94
115	385.95	589.22	837.01	1028.74	1112.24
120	445.75	667.95	879.73	1074.38	1146.47
125	494.76	716.65	928.68	1099.61	1177.91
130	511.64	736.44	959.02	1096.97	1165.82
135	541.5	736.21	984.99	1075.46	1103.15
140	545.08	730.48	980.7	1076.91	1097
145	556.42	712.01	927.38	1083.32	1100.53
150	555.89	698.4	856.2	1009.41	1058.51
155	557.96	673.63	808.09	894.57	932.92
160	559.79	650.37	760.49	822.85	840.04
165	558.6	608.2	714.7	753.94	784.43
170	560.7	573.56	635.38	680.89	677.1
175	560.62	550.06	559.76	589.18	575.75
180	560.48	560.48	560.48	560.48	560.48

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	1910	3900	6324
55	2071	4377	7637
65	2045	3785	6018
75	1777	1918	2030
85	1497	1666	1665