Orbit II O2DS CAT #: Fluorescent . Pendant PREP BY: DATE: PROJECT: 79 [3.1] TYPE: NOTES: NOTES:

ORDERING LOGIC

		Optics			
O2DS					
# of lamps	Source Length	Up Down	Finish Ballast Circui	try Mounting Vo	oltage IC
# of Lamps	Length	Optics Up	Ballast	Mounting	Integrated Control (IC)
1 = 1 Lamp	4 = 4 ft	P = Perforated	E = Electronic Instant Start (T8)	PA = Pendant Aircraft Cable	= None (leave space empty)
2 = 2 Lamps	8 = 8 ft	C = Clear Dust Cover	R = Programmed Rapid Start	PT = Pendant Aircraft Cable for T-Bar	D = Daylight Sensor
$3 = \frac{3 \text{ Lamps}}{(\text{T5/T5HO only})}$	R = Continuous Rows (Consult factory)	– Open Top – (leave space empty)	D1 = 0-10V Dimming	SS = Solid Stem	O = Occupancy Sensor
Source		Optics Down	D2 = DALI	Select HANGER LENGTH and HANGER FINISH on p2	DO = Daylight/Occupancy Sensor
Т8		SB = Solid Cross Blade Baffle	Circuitry	Voltage	
T5		SBO = Solid Cross Blade Baffle w/ Opal Overlay	1 = 1 Circuit	1 = 120 V	
T5HO		Finish	LR = Left/Right Switching (2 Lamps)	2 = 277 V	
		W = White	AS = Alternate Switching	3 = 347 V	
		Custom Finish C = Specify RAL#:	IO = In/Out Switching (3 Lamps)	4 = UNV (120-277 V)	
		C – Specijy KAL#:	EM = Emergency/Night Light		
			B = Battery		

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.

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 Ballast: Instant Start (T8), Programmed Rapid Start, 0-10V Dimming, DALI Approvals: Certified to NRTL and IES testing standards. cULus certified. Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant a one year parts and labour warranty. Warranty is valid if luminaire is installed and used according to specification. The Ballast will carry a standard 5 year warranty by the manufacturer. If defective, Metalumen will send replacement ballasts or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

FILE NAME: Orbit_02DS_FL_SPEC_SHEET

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

081215

APPROVALS: Signature ____

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

connect sections.

Date _

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FEATURES

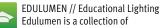


COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting,

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

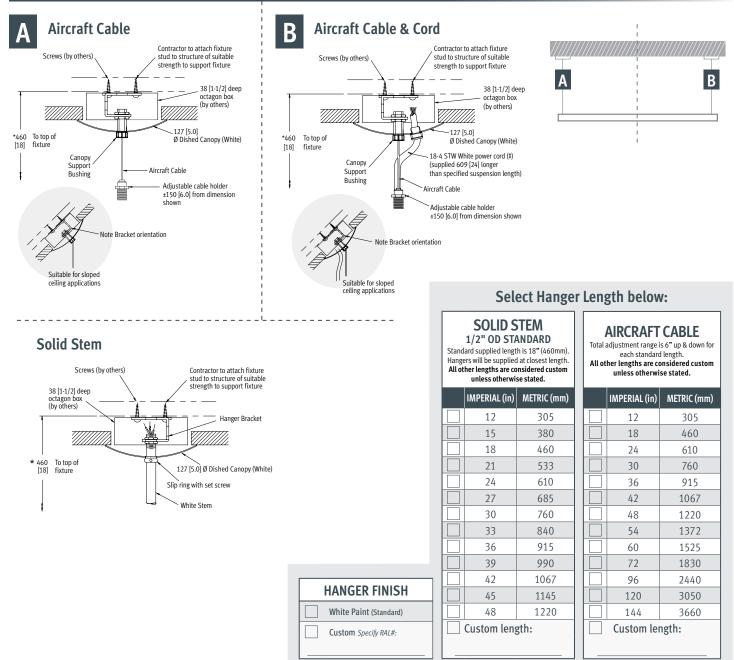
Metalumen's Start to End Development Process.



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.

HANGAR INFORMATION



FILE NAME: Orbit_02DS_FL_SPEC_SHEET 081215

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 SPECIFICATION SHEET | PAGE 2

PHOTOMETRIC DATA



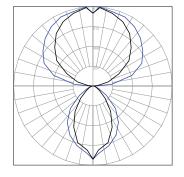
File Name:02DS-2T8-4-SB-W-E1-PA-1Luminaire Lumens:4700Total Watts:78Efficacy:60 lms/WOptics Up:Open topOptics Down:Solid cross blade baffle

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC		8	0			7	0			50	
RW	70	50	30	10	70	50	30	10	50	30	10
RCR											
0	83	83	83	83	75	75	75	75	59	59	59
1	76	72	69	66	68	65	62	60	51	50	48
2	69	63	58	54	62	57	53	49	45	42	4(
3	63	55	50	45	56	50	45	41	40	36	33
4	57	49	43	38	51	44	39	35	35	31	28
5	53	43	37	32	47	39	34	30	31	27	24
6	48	39	32	28	43	35	30	26	28	24	21
7	44	35	29	24	40	31	26	22	25	21	18
8	41	31	25	21	37	28	23	19	23	19	16
9	38	28	23	19	34	26	21	17	21	17	14
10	35	26	20	17	32	24	19	15	19	15	13

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical	Но	rizontal An	gle
Angle	0	45	90
45	585	927	1511
55	317	542	1263
65	208	249	717
75	150	134	348
85	123	66	150

CANDLE DISTRIBUTION

Vertical Angle	0.0	22.5	Horizonta 45.0	l Angle 67.5	90.0
0	753	753	753	753	753
5	661	685	696	723	735
15	603	617	636	702	732
25	468	495	560	660	713
35	320	360	459	593	693
45	179	216	330	449	550
55	81	94	170	305	408
65	41	46	65	141	195
75	20	22	27	39	74
85	8	7	9	12	22
90	4	17	39	53	57
95	50	137	191	219	221
105	163	281	416	476	490
115	296	392	555	663	681
125	453	510	628	724	761
135	557	607	693	751	784
145	659	692	745	783	798
155	728	743	782	796	811
165	774	796	790	800	803
175	808	805	816	794	812
180	749	749	749	749	749



 File Name:
 02DS-2T5H0-4-SB-W-R1-PA-1

 Total Lumens:
 6579

 Input Watts:
 118

 Efficacy:
 56 lms/W

 Optics Up:
 Open top

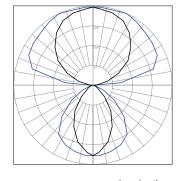
Optics Down: Solid cross blade baffle

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC RW	70		30 30	10	70	7 50	'0 30	10	50	50 30	10
RCR											
0	76	76	76	76	68	68	68	68	53	53	53
1	70	67	64	61	62	60	57	55	47	45	44
2	63	58	54	50	57	52	49	46	41	39	36
3	58	51	46	42	52	46	42	38	36	33	31
4	53	45	40	35	47	41	36	32	32	29	26
5	48	40	34	30	43	36	31	27	29	25	22
6	44	36	30	26	40	32	27	24	26	22	19
7	41	32	26	22	37	29	24	21	23	20	17
8	38	29	23	20	34	26	21	18	21	17	15
9	35	26	21	17	31	24	19	16	19	16	13
10	33	24	19	15	29	22	17	14	17	14	12

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical	Но	gle	
Angle	0	45	90
45	776	1307	1990
55	377	689	1696
65	283	314	731
75	186	160	274
85	141	84	121

CANDLE DISTRIBUTION

Vertical	Horizontal Angle						
Angle	0.0	22.5	45.0	67.5	90.0		
0	981	981	981	981	981		
5	940	968	988	988	1055		
15	819	856	882	959	998		
25	635	671	767	918	1005		
35	437	491	625	837	966		
45	229	287	448	610	696		
55	93	116	208	367	526		
65	54	58	79	161	191		
75	24	27	31	40	56		
85	9	10	11	14	17		
90	5	22	32	34	31		
95	59	229	361	392	405		
105	206	383	687	876	928		
115	397	539	779	991	1044		
125	597	702	858	1017	1070		
135	749	834	952	1033	1073		
145	890	944	1021	1072	1098		
155	994	1013	1059	1107	1104		
165	1045	1062	1086	1084	1094		
175	1071	1062	1071	1095	1067		
180	1091	1091	1091	1091	1091		

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