



REPORT NUMBER: ITL87387-GONIOPHOTOMETRY
ISSUE DATE: 05/20/16
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-625

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LUMINAIRE: FORMED SEMI-DIFFUSE METAL HOUSING WITH WHITE PAINTED OPTICAL COMPARTMENT, FABRICATED WHITE PAINTED METAL DRIVER COVER, 1 WHITE CIRCUIT BOARD WITH 30 LEDS, 3 FORMED SPECULAR METAL DIFFUSER MOUNTING CLIPS, TRANSLUCENT WHITE ACRYLIC DIFFUSER. DRIVER IS OFFSET TOWARDS THE 180-DEGREE PLANE OF OPTICAL COMPARTMENT.

LAMPS: THIRTY WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 13.2 WATTS, 0.113 AMPS

MOUNTING: SURFACE

LED DRIVER: L.T.F. DA12W350C1834D010-0000, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

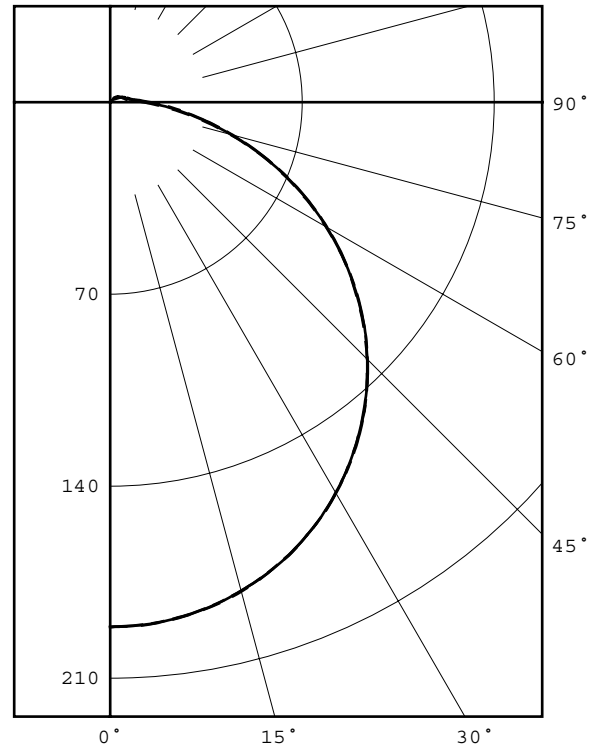
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER. ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	191	191	191	191	191	
5	191	191	191	191	191	18
15	185	185	184	184	184	52
25	173	173	173	173	173	80
35	155	155	155	155	155	97
45	132	132	133	132	133	102
55	106	106	106	106	106	95
65	76	76	76	77	76	75
75	45	46	46	47	46	49
85	20	20	21	22	23	24
90	12	13	13	14	15	
95	8	8	9	9	10	10
105	5	5	6	6	6	6
115	4	4	5	5	5	5
125	3	3	3	4	4	3
135	2	2	2	2	3	2
145	1	1	1	1	1	1
155	0	0	0	1	1	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0



LEGEND:
0-deg - - - - -
45-deg = = = = =
90-deg - - - - -

ZONAL LUMEN SUMMARY		%FIXT
ZONE	LUMENS	
0- 30	150	24.3
0- 40	247	40.0
0- 60	444	71.8
0- 90	591	95.7
90-120	21	3.4
90-130	24	3.8
90-150	26	4.2
90-180	26	4.3
0-180	618	100.0

EFFICACY = 46.8 lm/W
CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.28 1.28
BEAM ANGLE (50%) : 116.8 X 117.1 DEGREES
FIELD ANGLE (10%) : 170.8 X 173.9 DEGREES

Checked M KLOPF
Approved R BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	1995.	1996.	1999.
55	1871.	1873.	1877.
65	1841.	1851.	1861.
75	1697.	1719.	1742.
85	1411.	1511.	1604.



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	191	191	191	191	191
5.0	191	191	191	191	191
10.0	188	188	188	188	188
15.0	185	185	184	184	184
20.0	179	179	179	179	179
25.0	173	173	173	173	173
30.0	165	164	164	165	165
35.0	155	155	155	155	155
40.0	145	144	144	144	145
45.0	132	132	133	132	133
50.0	119	120	120	120	120
55.0	106	106	106	106	106
60.0	91	91	91	92	91
65.0	76	76	76	77	76
70.0	60	61	61	62	61
75.0	45	46	46	47	46
80.0	31	32	32	33	33
85.0	20	20	21	22	23
90.0	12	13	13	14	15
95.0	8	8	9	9	10
100.0	6	6	7	7	7
105.0	5	5	6	6	6
110.0	5	5	5	6	6
115.0	4	4	5	5	5
120.0	4	4	4	4	4
125.0	3	3	3	4	4
130.0	3	3	3	3	3
135.0	2	2	2	2	3
140.0	1	1	2	2	2
145.0	1	1	1	1	1
150.0	1	1	1	1	1
155.0	0	0	0	1	1
160.0	0	0	0	0	0
165.0	0	0	0	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	5
5- 10	14
10- 15	22
15- 20	30
20- 25	37
25- 30	43
30- 35	47
35- 40	50
40- 45	51
45- 50	51
50- 55	49
55- 60	46
60- 65	41
65- 70	35
70- 75	28
75- 80	21
80- 85	14
85- 90	9
90- 95	6
95-100	4
100-105	3
105-110	3
110-115	2
115-120	2
120-125	2
125-130	1
130-135	1
135-140	1
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	18
0- 20	70
0- 30	150
0- 40	247
0- 50	349
0- 60	444
0- 70	519
0- 80	568
0- 90	591
0-100	601
0-110	607
0-120	612
0-130	615
0-140	617
0-150	617
0-160	618
0-170	618
0-180	618



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	101	97	93	103	99	95	91	94	90	87	89	86	84	85	82	80	78	78
2	97	88	81	75	94	86	79	73	81	76	71	77	73	69	74	70	67	64	64
3	88	77	68	61	85	75	67	61	71	65	59	68	62	57	65	60	56	53	53
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52	48	45	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41	39	39
6	68	54	45	39	66	53	44	38	51	43	38	49	42	37	47	41	36	34	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24	24
10	51	38	30	24	50	37	29	24	36	29	24	35	28	24	33	28	23	22	22

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

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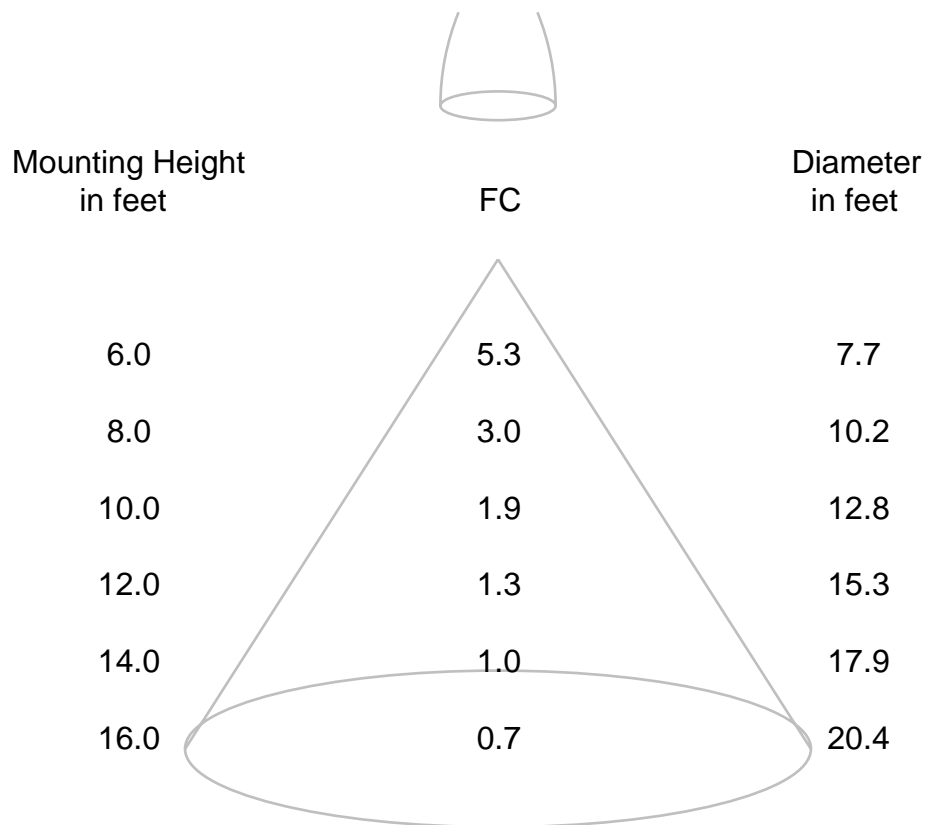
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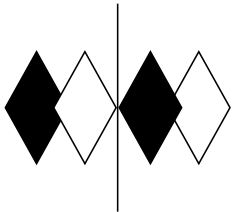
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)



Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.



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NVLAP LAB CODE: 200925-0

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ADDRESS: 201 RAILHEAD ROAD
FORT WORTH, TX 76106

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