



REPORT NUMBER: ITL87384-GONIOPHOTOMETRY
ISSUE DATE: 05/16/16
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 3-623

PAGE: 1 OF 7

LUMINAIRE: FORMED SPECULAR METAL HOUSING WITH WHITE PAINTED OPTICAL COMPARTMENT, FABRICATED WHITE PAINTED METAL DRIVER COVER, 1 WHITE CIRCUIT BOARD WITH 30 LEDs, FROSTED GLASS DIFFUSER WITH TRANSLUCENT WHITE FINISHED INTERIOR. 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, 13.0 WATTS, 0.111 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.

TEST PROCEDURE: IESNA LM-79-08

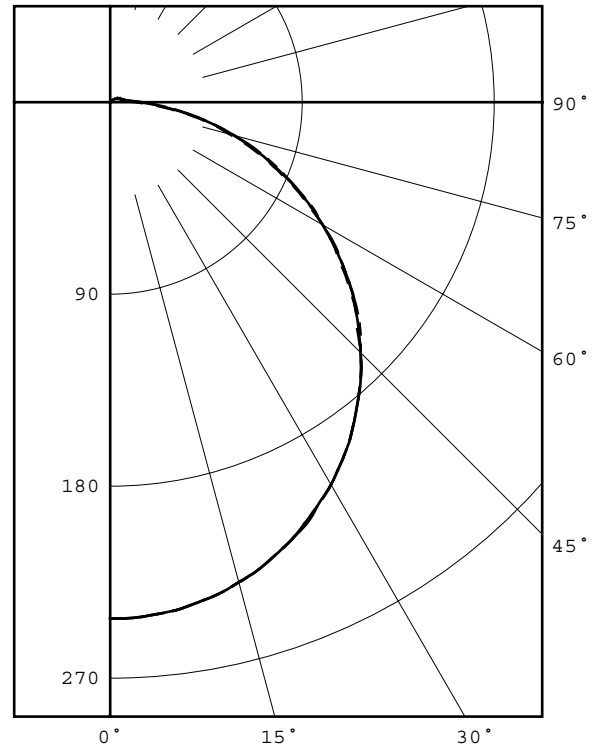
TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	242	242	242	242	242	
5	241	241	241	241	241	23
15	233	233	233	233	233	66
25	217	218	218	218	217	100
35	195	194	195	195	195	122
45	166	166	166	166	166	128
55	132	133	133	133	133	119
65	96	96	97	97	97	96
75	58	59	60	60	60	63
85	24	24	25	26	26	29
90	12	13	14	15	15	
95	7	7	8	9	9	9
105	5	5	5	6	6	6
115	3	4	4	4	4	4
125	2	2	3	3	3	2
135	1	1	1	2	2	1
145	0	0	1	1	1	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	189	24.6
0- 40	311	40.5
0- 60	558	72.7
0- 90	745	97.0
90-120	19	2.5
90-130	21	2.8
90-150	23	3.0
90-180	23	3.0
0-180	768	100.0

EFFICACY = 59.1 lm/W
CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.27 1.27
BEAM ANGLE (50%) : 116.7 X 117.0 DEGREES
FIELD ANGLE (10%) : 169.9 X 171.5 DEGREES



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

Checked J. VILLANUEVA
Approved R. BEATTIE
Lighting Engineer



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NVLAP LAB CODE: 200925-0

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PAGE: 2 OF 7

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	2521.	2521.	2521.
55	2447.	2465.	2465.
65	2362.	2387.	2387.
75	2196.	2272.	2272.
85	1836.	1913.	1989.



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PAGE: 3 OF 7

CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	242	242	242	242	242
5.0	241	241	241	241	241
10.0	238	238	238	238	238
15.0	233	233	233	233	233
20.0	226	226	226	226	226
25.0	217	218	218	218	217
30.0	207	207	207	207	207
35.0	195	194	195	195	195
40.0	181	181	181	181	181
45.0	166	166	166	166	166
50.0	150	150	150	150	151
55.0	132	133	133	133	133
60.0	115	115	115	115	115
65.0	96	96	97	97	97
70.0	77	78	78	78	79
75.0	58	59	60	60	60
80.0	41	41	42	42	42
85.0	24	24	25	26	26
90.0	12	13	14	15	15
95.0	7	7	8	9	9
100.0	6	6	6	7	7
105.0	5	5	5	6	6
110.0	4	4	5	5	5
115.0	3	4	4	4	4
120.0	3	3	3	3	4
125.0	2	2	3	3	3
130.0	2	2	2	2	2
135.0	1	1	1	2	2
140.0	1	1	1	1	1
145.0	0	0	1	1	1
150.0	0	0	0	0	0
155.0	0	0	0	0	0
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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PAGE: 4 OF 7

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	6
5- 10	17
10- 15	28
15- 20	38
20- 25	47
25- 30	54
30- 35	59
35- 40	63
40- 45	64
45- 50	64
50- 55	62
55- 60	57
60- 65	51
65- 70	44
70- 75	36
75- 80	27
80- 85	18
85- 90	10
90- 95	6
95-100	4
100-105	3
105-110	3
110-115	2
115-120	2
120-125	1
125-130	1
130-135	1
135-140	0
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	23
0- 20	89
0- 30	189
0- 40	311
0- 50	439
0- 60	558
0- 70	653
0- 80	716
0- 90	745
0-100	754
0-110	760
0-120	764
0-130	766
0-140	767
0-150	768
0-160	768
0-170	768
0-180	768



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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	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79	79
2	97	88	81	75	94	86	79	74	82	76	71	78	73	69	75	71	67	65	65
3	88	77	68	62	85	75	67	61	72	65	59	68	63	58	66	61	57	54	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	46	46
5	74	61	51	44	71	59	51	44	57	49	43	54	48	43	52	46	42	40	40
6	68	54	45	39	66	53	45	38	51	43	38	49	42	37	47	41	37	34	34
7	63	49	40	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30	30
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	40	34	29	27	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	34	28	24	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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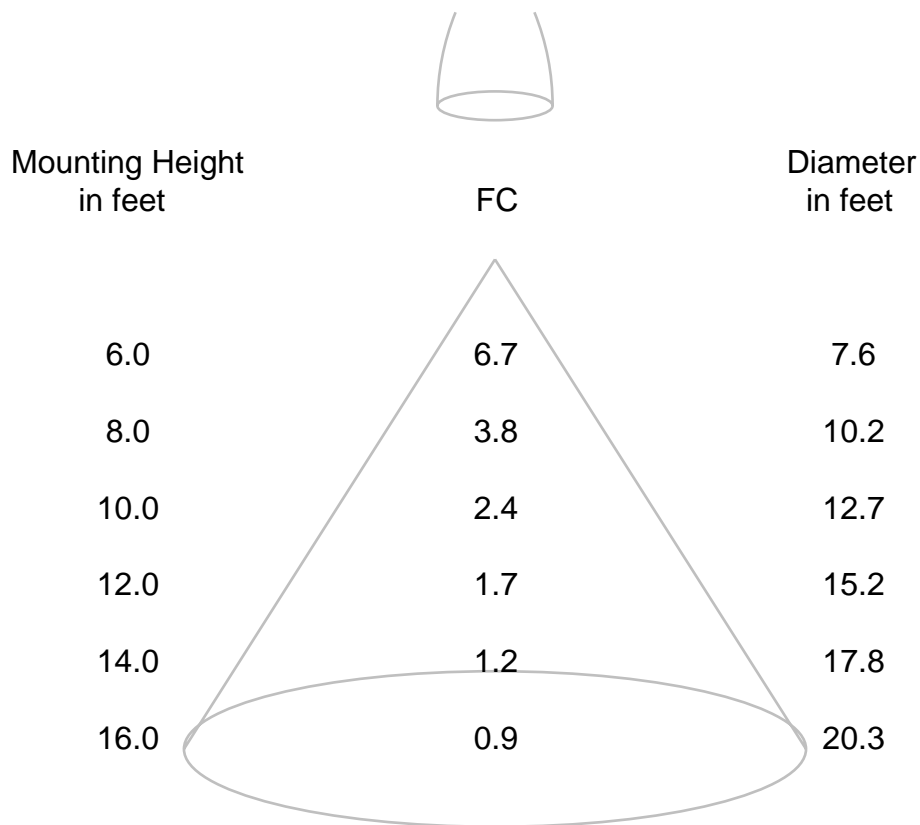
PAGE: 6 OF 7

ISSUE DATE: 05/16/16

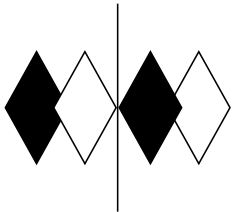
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CONE OF LIGHT DIAGRAM

(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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