

REPORT NUMBER: ITL87386-GONIOPHOTOMETRY  
ISSUE DATE: 05/20/16  
PREPARED FOR: OXYGEN LIGHTING  
CATALOG NUMBER: 3-622

PAGE: 1 OF 7

LUMINAIRE: FORMED SEMI-SPECULAR METAL HOUSING WITH WHITE PAINTED OPTICAL COMPARTMENT, FABRICATED WHITE PAINTED METAL DRIVER COVER, FABRICATED SEMI-DIFFUSE METAL CIRCUIT BOARD MOUNT, 1 WHITE CIRCUIT BOARD WITH 24 LEDS, FROSTED GLASS DIFFUSER WITH TRANSLUCENT WHITE FINISHED INTERIOR. DRIVER IS OFFSET TOWARDS THE 180-DEGREE PLANE OF OPTICAL COMPARTMENT.

LAMPS: TWENTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

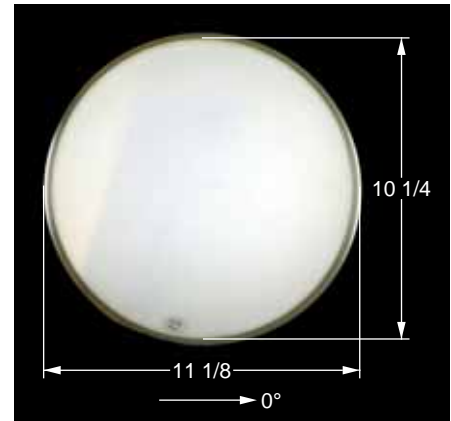
INPUT ELECTRICAL: 120.0 VOLTS, 10.1 WATTS, 0.0884 AMPS

MOUNTING: SURFACE

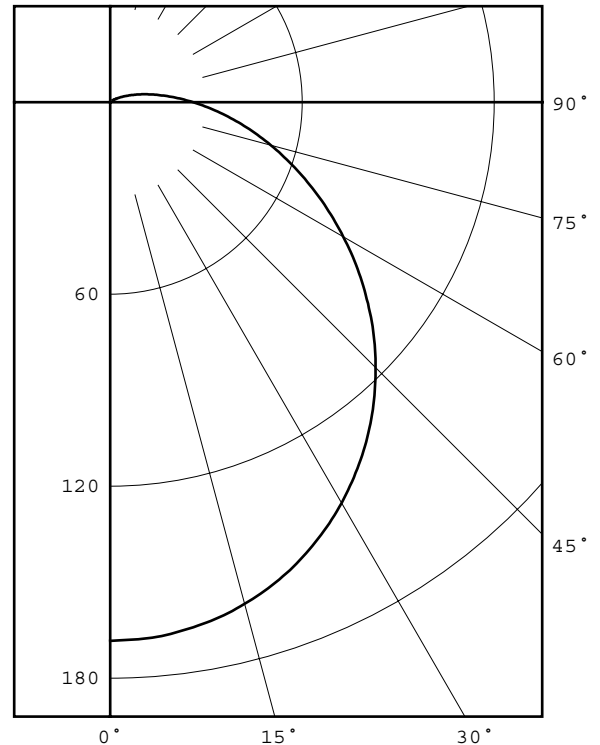
LED DRIVER: L.T.F. DA12W350C1834D010-0000, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

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



DEG	CANDELA	LUMENS
0	168	
5	168	16
15	162	46
25	152	70
35	136	85
45	117	91
55	96	85
65	73	72
75	52	55
85	34	37
90	26	
95	19	21
105	9	10
115	4	4
125	1	1
135	0	0
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0



ZONAL ZONE	LUMEN SUMMARY LUMENS	%FIXT
0- 30	132	22.2
0- 40	217	36.5
0- 60	393	66.2
0- 90	557	93.9
90-120	35	5.9
90-130	36	6.1
90-150	37	6.1
90-180	37	6.1
0-180	594	100.0

EFFICACY = 58.8 lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 1.28  
BEAM ANGLE (50%) : 120.0 DEGREES  
FIELD ANGLE (10%) : 194.0 DEGREES

Checked       M KLOPF        
Approved       R BEATTIE        
Lighting Engineer



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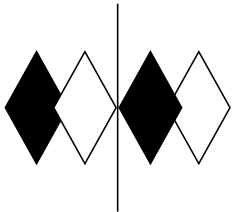
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LUMINANCE DATA IN CANDELA/SQ M  
 ANGLE AVERAGE  
 IN DEG

45	3064.
55	3016.
65	2908.
75	2734.
85	2465.



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CANDELA DISTRIBUTION

0.0	168
5.0	168
10.0	166
15.0	162
20.0	158
25.0	152
30.0	145
35.0	136
40.0	127
45.0	117
50.0	107
55.0	96
60.0	84
65.0	73
70.0	62
75.0	52
80.0	43
85.0	34
90.0	26
95.0	19
100.0	14
105.0	9
110.0	6
115.0	4
120.0	2
125.0	1
130.0	1
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	4
5- 10	12
10- 15	19
15- 20	26
20- 25	32
25- 30	37
30- 35	41
35- 40	44
40- 45	45
45- 50	45
50- 55	44
55- 60	42
60- 65	38
65- 70	34
70- 75	30
75- 80	25
80- 85	21
85- 90	16
90- 95	12
95-100	9
100-105	6
105-110	4
110-115	2
115-120	1
120-125	1
125-130	0
130-135	0
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	16
0- 20	62
0- 30	132
0- 40	217
0- 50	308
0- 60	393
0- 70	465
0- 80	521
0- 90	557
0-100	579
0-110	589
0-120	593
0-130	594
0-140	594
0-150	594
0-160	594
0-170	594
0-180	594



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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	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	63	60	60
3	86	74	66	58	83	72	64	58	68	61	56	65	59	54	61	56	52	50	50
4	78	66	56	49	76	64	55	48	60	53	47	57	51	46	54	49	44	42	42
5	72	58	49	42	69	57	48	41	54	46	40	51	45	39	49	43	38	36	36
6	66	52	43	36	64	51	42	36	49	41	35	46	40	34	44	38	34	31	31
7	61	47	38	32	59	46	38	32	44	37	31	42	35	30	40	34	30	27	27
8	57	43	34	28	55	42	34	28	40	33	28	39	32	27	37	31	26	24	24
9	53	40	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22	22
10	50	36	28	23	48	36	28	23	34	27	22	33	27	22	32	26	22	20	20

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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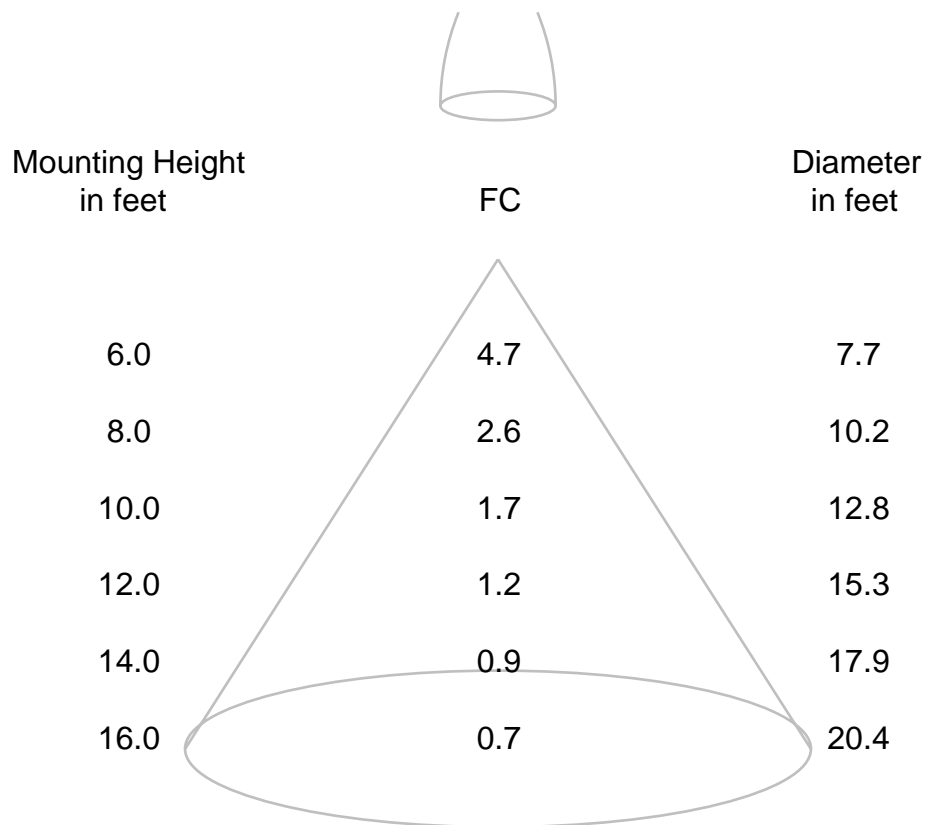
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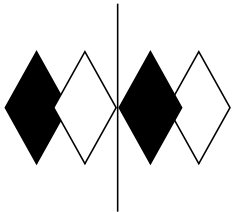
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## CONE OF LIGHT DIAGRAM

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





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NVLAP LAB CODE: 200925-0

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