

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

REPORT NUMBER: ITL88146-GONIOPHOTOMETRY

PAGE: 1 OF 6

ISSUE DATE: 08/24/16

PREPARED FOR: BOYD LIGHTING COMPANY

CATALOG NUMBER: C-10620

LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING BASE AND SUPPORT ROD, FABRICATED WHITE PAINTED METAL 0.75" WIDE RING HOUSING, 78 LEDS, 3-PIECE TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 32.6 WATTS, 0.273 AMPS

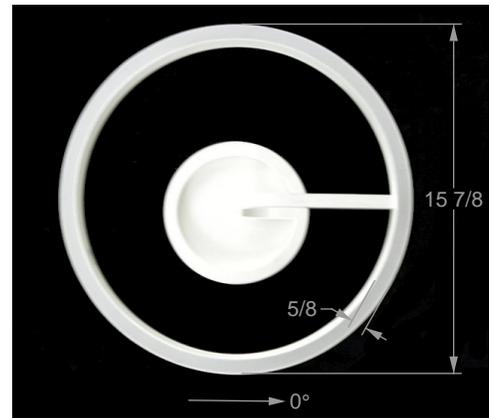
MOUNTING: PENDANT

LED DRIVER: OSRAM OT25W/PRG1250C/UNV/DIM-1, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

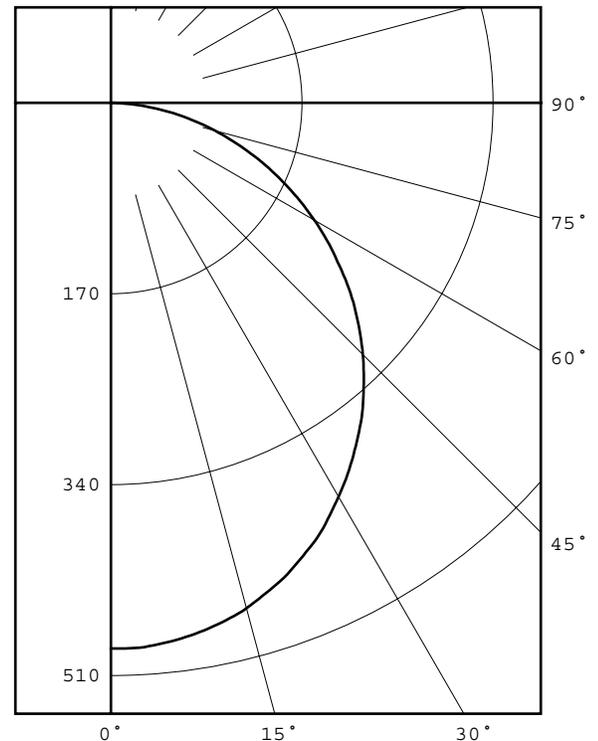
TEST DISTANCE = 35.0 FEET



DEG	CANDELA	LUMENS
0	486	
5	484	46
15	466	131
25	430	198
35	378	237
45	317	244
55	246	220
65	171	169
75	96	101
85	25	29
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	375	27.3
0- 40	612	44.5
0- 60	1077	78.2
0- 90	1376	100.0
90-180	0	0.0
0-180	1376	100.0

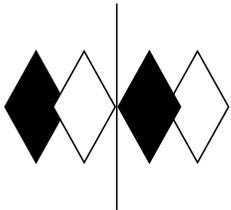
EFFICACY = 42.2 lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 1.24  
BEAM ANGLE (50%) : 110.8 DEGREES  
FIELD ANGLE (10%) : 163.2 DEGREES



LUMINANCE DATA IN CANDELA/SQ M  
ANGLE AVERAGE  
IN DEG

45	24382.
55	23326.
65	22006.
75	20173.
85	15600.

Checked J. VILLANUEVA  
Approved R. BEATTIE  
Lighting Engineer



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PAGE: 2 OF 6

CANDELA DISTRIBUTION

0.0	486
2.5	486
5.0	484
7.5	481
10.0	477
12.5	472
15.0	466
17.5	458
20.0	450
22.5	440
25.0	430
27.5	418
30.0	405
32.5	392
35.0	378
37.5	364
40.0	349
42.5	333
45.0	317
47.5	300
50.0	283
52.5	265
55.0	246
57.5	228
60.0	209
62.5	190
65.0	171
67.5	152
70.0	133
72.5	114
75.0	96
77.5	78
80.0	60
82.5	42
85.0	25
87.5	10
90.0	0



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PAGE: 3 OF 6

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	12
5- 10	34
10- 15	56
15- 20	75
20- 25	92
25- 30	106
30- 35	115
35- 40	121
40- 45	123
45- 50	121
50- 55	115
55- 60	105
60- 65	92
65- 70	77
70- 75	60
75- 80	42
80- 85	23
85- 90	6

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	46
0- 20	177
0- 30	375
0- 40	612
0- 50	856
0- 60	1077
0- 70	1246
0- 80	1347
0- 90	1376



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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	119	119	119	119	119	116	116	116	116	111	111	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	39	33	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	36	30	26	24

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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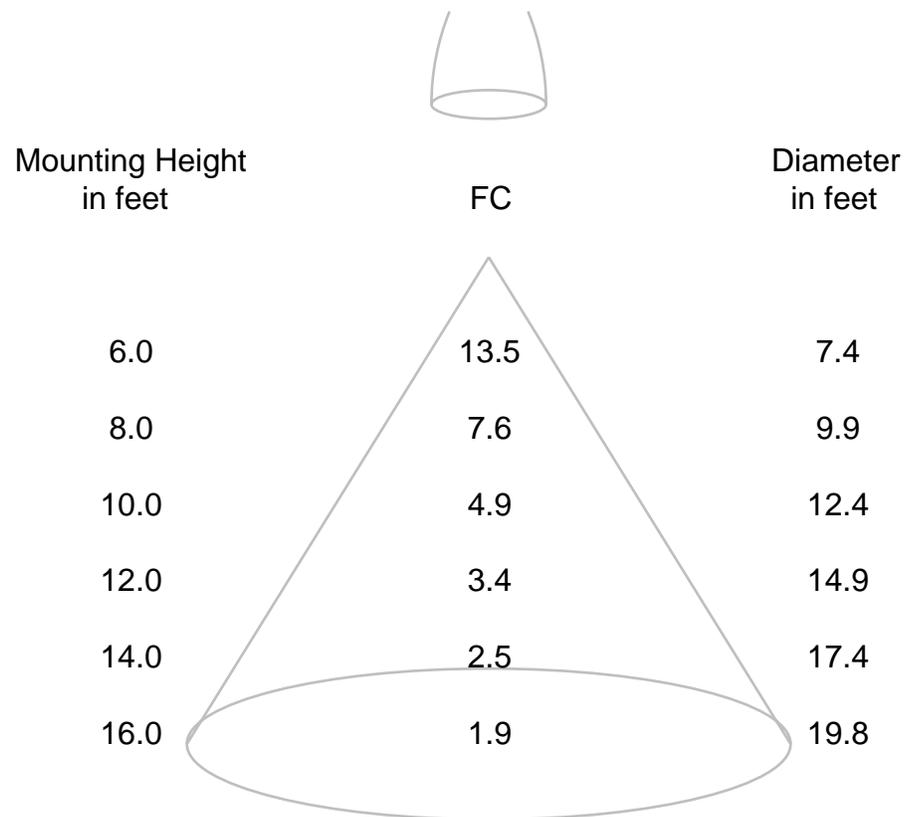
PAGE: 5 OF 6

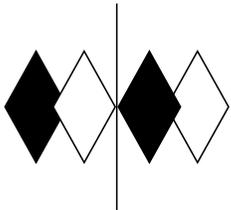
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## CONE OF LIGHT DIAGRAM

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





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