

REPORT NUMBER: ITL88145-GONIOPHOTOMETRY

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ISSUE DATE: 08/23/16

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, 24.3 WATTS, 0.204 AMPS

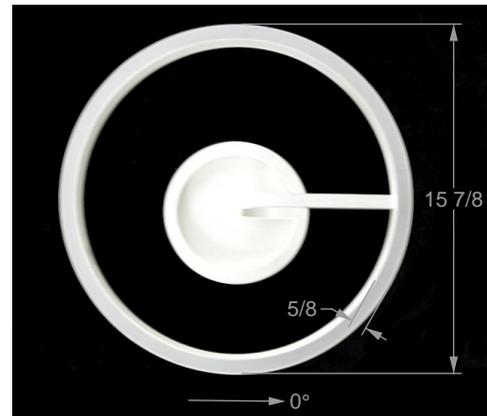
MOUNTING: PENDANT

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 525mA 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	391	
5	389	37
15	374	106
25	345	159
35	304	190
45	254	196
55	198	177
65	138	136
75	77	81
85	20	23
90	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	302	27.3
0- 40	492	44.5
0- 60	865	78.2
0- 90	1106	100.0
90-180	0	0.0
0-180	1106	100.0

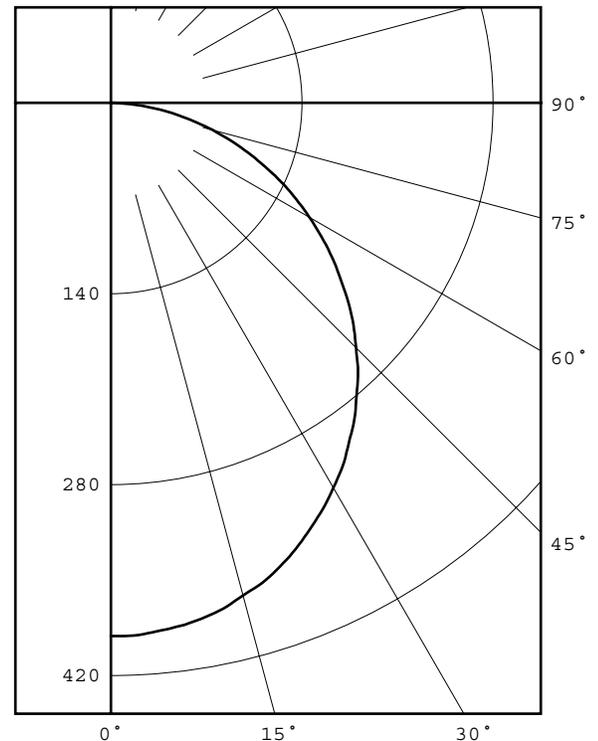
EFFICACY = 45.5 lm/W

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	19536.
55	18774.
65	17759.
75	16180.
85	12480.

Checked J. VILLANUEVA

Approved R. BEATTIE
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.
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CANDELA DISTRIBUTION

0.0	391
2.5	391
5.0	389
7.5	387
10.0	384
12.5	380
15.0	374
17.5	369
20.0	362
22.5	354
25.0	345
27.5	336
30.0	326
32.5	316
35.0	304
37.5	293
40.0	280
42.5	268
45.0	254
47.5	241
50.0	227
52.5	212
55.0	198
57.5	183
60.0	168
62.5	153
65.0	138
67.5	122
70.0	107
72.5	92
75.0	77
77.5	62
80.0	48
82.5	34
85.0	20
87.5	8
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	28
10- 15	45
15- 20	61
20- 25	74
25- 30	85
30- 35	93
35- 40	98
40- 45	99
45- 50	97
50- 55	92
55- 60	85
60- 65	74
65- 70	62
70- 75	48
75- 80	33
80- 85	18
85- 90	5

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	37
0- 20	143
0- 30	302
0- 40	492
0- 50	688
0- 60	865
0- 70	1001
0- 80	1083
0- 90	1106



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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	54	47	73	61	53	47	59	52	46	57	51	46	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	31	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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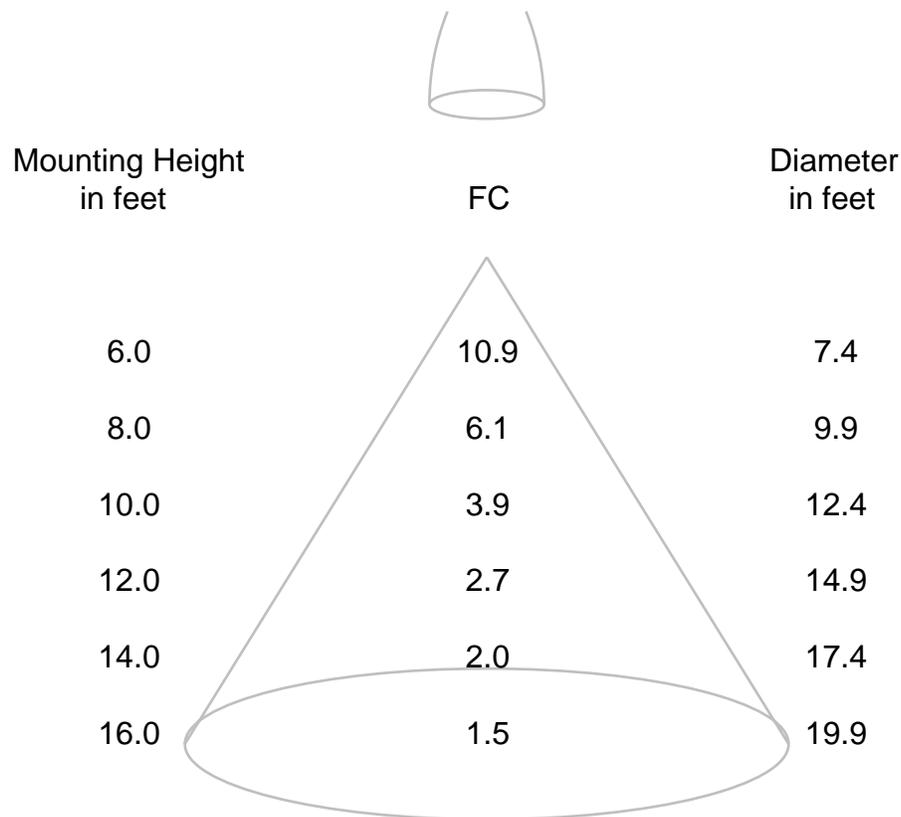
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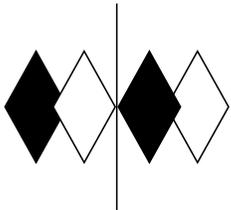
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CONE OF LIGHT DIAGRAM

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





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