

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

REPORT NUMBER: ITL88148-GONIOPHOTOMETRY

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ISSUE DATE: 08/24/16

PREPARED FOR: BOYD LIGHTING COMPANY

CATALOG NUMBER: C-10621

LUMINAIRE: FABRICATED BROWN PAINTED METAL MOUNTING BASE AND SUPPORT ROD, FABRICATED BROWN PAINTED METAL 0.75" WIDE RING HOUSING, 117 LEDS, 3-PIECE TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER. DIFFUSER FROSTED SIDE OUT.

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

INPUT ELECTRICAL: 120.0 VOLTS, 42.1 WATTS, 0.353 AMPS

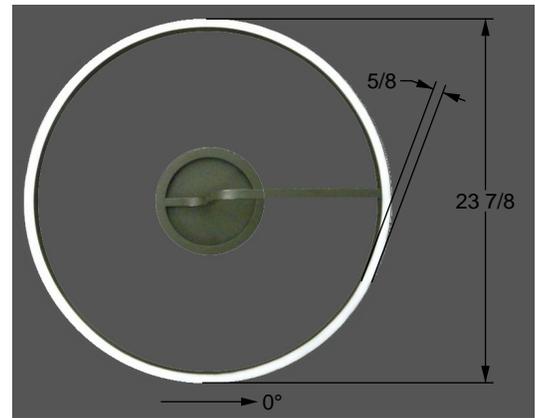
MOUNTING: PENDANT

LED DRIVER: OSRAM OT40W/PRG1400C/UNV/DIM-1, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 900mA 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



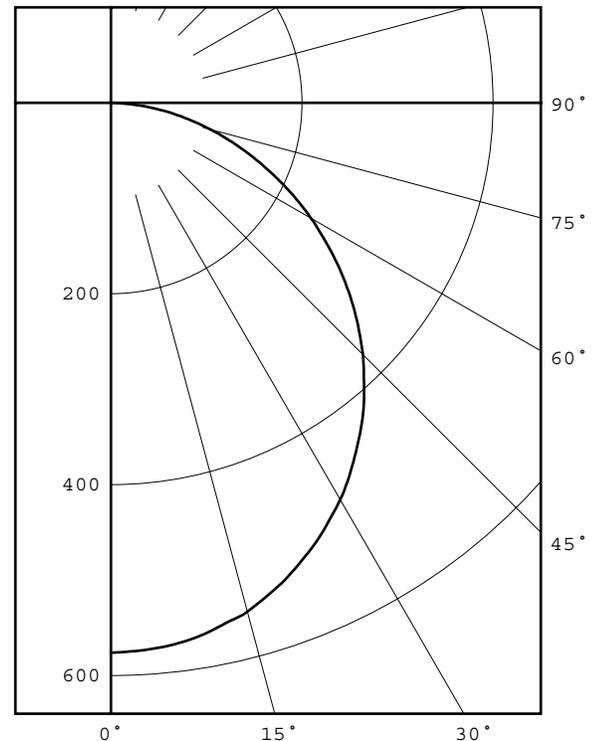
DEG	CANDELA	LUMENS
0	576	
5	573	54
15	552	155
25	508	234
35	447	280
45	373	287
55	287	256
65	196	194
75	108	114
85	28	33
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	444	27.6
0- 40	724	45.0
0- 60	1267	78.8
0- 90	1608	100.0
90-180	0	0.0
0-180	1608	100.0

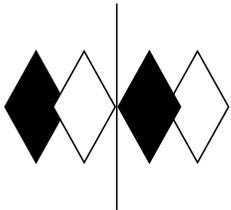
EFFICACY = 38.2 lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.24
BEAM ANGLE (50%) : 109.8 DEGREES
FIELD ANGLE (10%) : 162.4 DEGREES

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE
IN DEG

45	18831.
55	17862.
65	16556.
75	14896.
85	11468.



Checked J. VILLANUEVA
Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

0.0	576
2.5	575
5.0	573
7.5	570
10.0	565
12.5	558
15.0	552
17.5	542
20.0	532
22.5	520
25.0	508
27.5	494
30.0	480
32.5	464
35.0	447
37.5	430
40.0	412
42.5	392
45.0	373
47.5	352
50.0	331
52.5	309
55.0	287
57.5	264
60.0	242
62.5	219
65.0	196
67.5	173
70.0	151
72.5	129
75.0	108
77.5	87
80.0	67
82.5	47
85.0	28
87.5	11
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	14
5- 10	41
10- 15	66
15- 20	89
20- 25	109
25- 30	125
30- 35	136
35- 40	143
40- 45	145
45- 50	142
50- 55	134
55- 60	122
60- 65	106
65- 70	88
70- 75	68
75- 80	47
80- 85	26
85- 90	7

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	54
0- 20	210
0- 30	444
0- 40	724
0- 50	1011
0- 60	1267
0- 70	1462
0- 80	1576
0- 90	1608



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	69	65	61	59
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	39	33	29	27
10	53	40	32	26	52	39	32	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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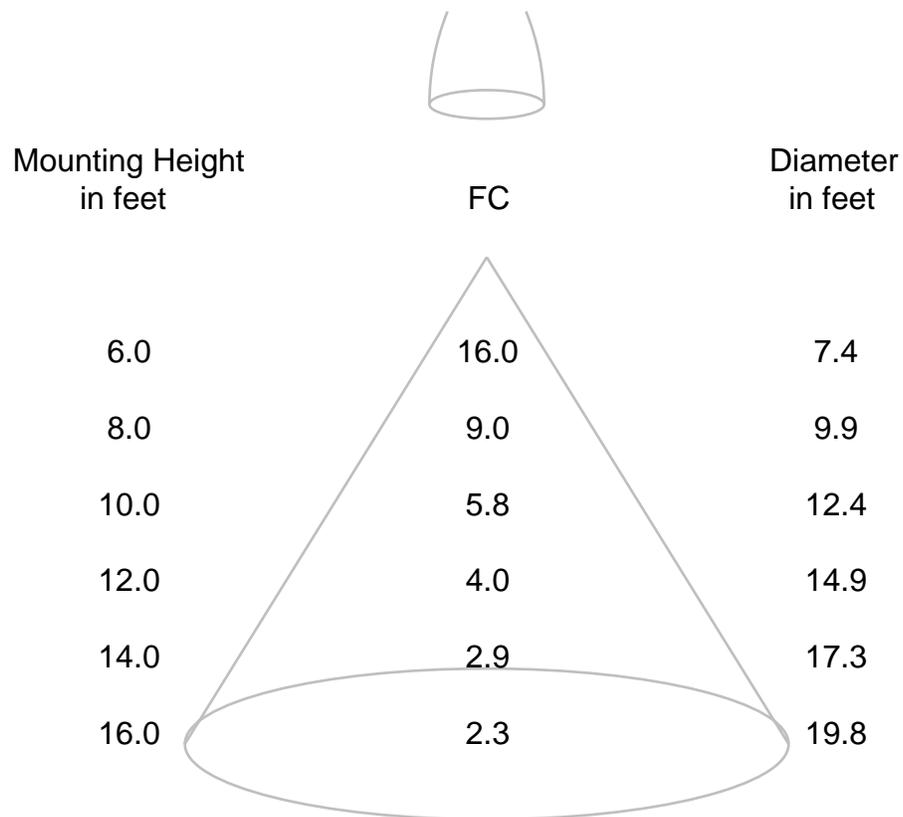
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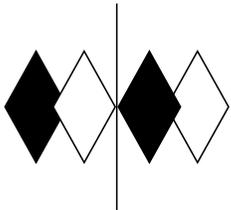
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CONE OF LIGHT DIAGRAM

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





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