

REPORT NUMBER: ITL84836

PAGE: 1 OF 6

ISSUE DATE: 06/09/15

PREPARED FOR: BOYD LIGHTING COMPANY

CATALOG NUMBER: E10493

LUMINAIRE: FABRICATED DIFFUSE BRONZE COLORED METAL TOP HOUSING WITH 4 VERTICAL POSTS AND BOTTOM FRAME, FLAT GLASS MIRROR REAR REFLECTOR, 9 LEDS AND TRANSLUCENT WHITE FLAT GLASS LENS IN TOP HOUSING. OPEN FRONT, SIDES AND BOTTOM. EXACT INTERIOR PROPERTIES UNKNOWN AS GLASS LENS IS SEALED IN PLACE.

LAMPS: NINE WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 19.3 WATTS, 0.166 AMPS

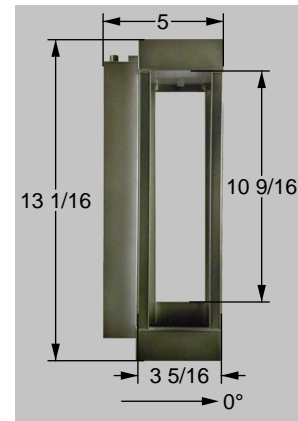
MOUNTING: WALL

LED DRIVER: HIGH PERFECTION TECH. LP1040-12

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 = 20.0 FEET



# CANDELA DISTRIBUTION FLUX

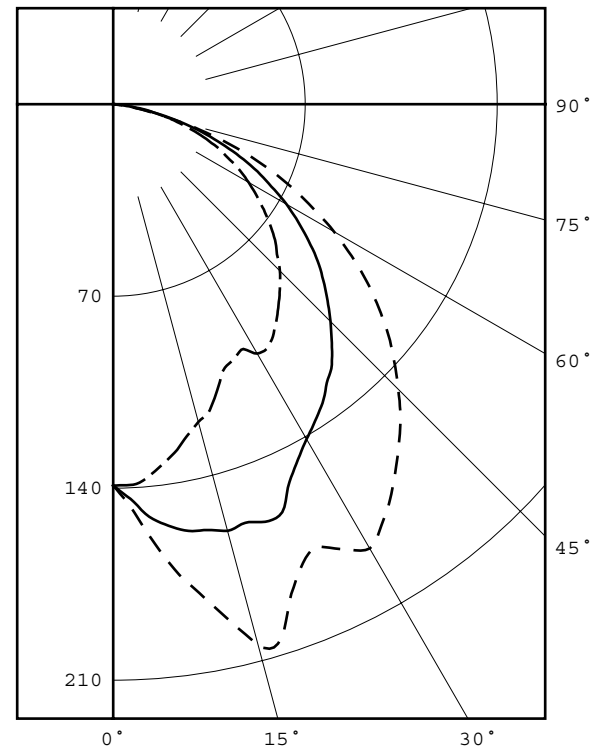
	0.0	45.0	90.0	135.0	180.0	
0	139	139	139	139	139	
5	159	151	137	119	103	12
15	204	161	120	31	4	29
25	178	152	103	11	2	40
35	176	133	102	9	1	50
45	147	112	86	8	0	52
55	113	87	67	6	0	47
65	72	58	46	4	0	34
75	26	26	23	2	0	16
85	1	1	2	0	0	2
90	0	0	0	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	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	

ZONAL ZONE	LUMEN LUMENS	SUMMARY LUMENS	%FIXT
0- 30		82	29.0
0- 40		132	46.7
0- 60		230	81.5
0- 90		283	100.0
90-120		0	0.0
90-130		0	0.0
90-150		0	0.0
90-180		0	0.0
0-180		283	100.0

EFFICACY = 14.7 lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG 180-DEG  
SPACING CRITERIA : 1.72 1.09 0.26



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

Checked M KLOPF  
Approved N WHITE  
Lighting Engineer



INDEPENDENT TESTING LABORATORIES, INC.  
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LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	8598.	8768.	11693.	
55	8628.	8872.	11412.	
65	8267.	8728.	11141.	
75	6397.	8060.	9903.	
85	0.	15500.	5167.	



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# CANDELA DISTRIBUTION

## LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	139	139	139	139	139	139	139	139	139
5.0	159	157	151	143	137	131	119	109	103
10.0	181	175	158	142	129	109	73	48	39
15.0	204	192	161	133	120	83	31	7	4
20.0	190	186	162	126	111	62	13	4	2
25.0	178	168	152	113	103	47	11	3	2
30.0	187	167	141	108	105	43	10	3	1
35.0	176	161	133	105	102	41	9	2	1
40.0	162	148	124	97	94	38	9	2	1
45.0	147	134	112	88	86	34	8	1	0
50.0	131	120	100	79	77	31	7	1	0
55.0	113	104	87	69	67	27	6	1	0
60.0	93	86	73	58	57	23	5	1	0
65.0	72	67	58	47	46	18	4	1	0
70.0	50	47	42	35	35	13	3	0	0
75.0	26	26	26	23	23	9	2	0	0
80.0	9	9	10	11	12	4	1	0	0
85.0	1	1	1	2	2	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	3
5- 10	9
10- 15	13
15- 20	16
20- 25	19
25- 30	21
30- 35	24
35- 40	26
40- 45	26
45- 50	26
50- 55	24
55- 60	22
60- 65	19
65- 70	15
70- 75	11
75- 80	6
80- 85	2
85- 90	0
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
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	12
0- 20	42
0- 30	82
0- 40	132
0- 50	184
0- 60	230
0- 70	264
0- 80	281
0- 90	283
0-100	283
0-110	283
0-120	283
0-130	283
0-140	283
0-150	283
0-160	283
0-170	283
0-180	283



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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	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	42	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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