



REPORT NUMBER: ITL86069

PAGE: 1 OF 8

ISSUE DATE: 11/25/15

PREPARED FOR: STONE LIGHTING LLC

CATALOG NUMBER: WS016OPSNLEDG8

LUMINAIRE: FABRICATED SEMI-SPECULAR METAL WALL MOUNTING BRACKET, FROSTED CYLINDRICAL GLASS DIFFUSER WITH WHITE FINISHED INTERIOR. OPEN TOP. DIFFUSER FROSTED SIDE OUT.

LAMP: ONE 4-PIN SINGLE ENDED TWIN TUBE STYLE LED LAMP WITH INTEGRAL LED DRIVER AND WHITE LIGHT EMITTING DIODES (LEDS), STONE LIGHTING PROPRIETARY LMP2G11L8, VERTICAL BASE-DOWN POSITION.

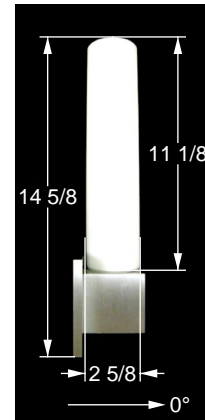
INPUT ELECTRICAL: 120.0 VOLTS, 7.32 WATTS, 0.0619 AMPS

MOUNTING: WALL

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

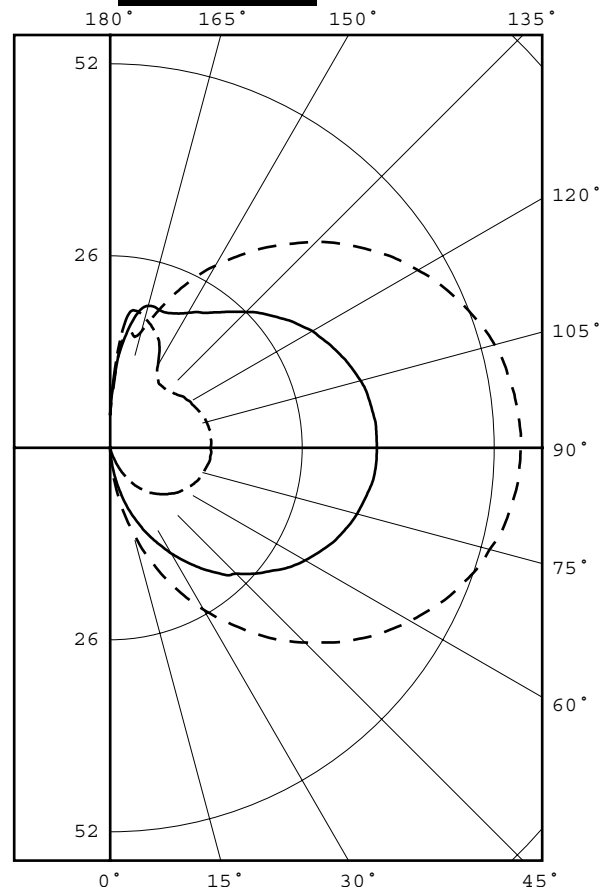
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	0.0	0.0	0.0	0.0	0.0	0
5	2.6	2.3	1.4	0.7	0.0	2
15	11.8	11.0	7.6	3.4	0.7	6
25	21.0	19.1	13.6	7.1	3.4	12
35	29.4	27.0	19.3	10.7	6.5	18
45	37.3	33.7	24.1	13.4	8.8	25
55	44.1	39.9	28.6	16.0	10.7	31
65	49.5	44.9	32.1	18.1	12.1	36
75	53.2	48.3	34.6	19.5	13.1	38
85	55.4	50.2	36.0	20.3	13.6	39
90	55.6	50.4	36.1	20.4	13.6	36
95	55.4	50.3	36.1	20.4	13.7	32
105	53.9	48.9	35.1	19.9	13.5	26
115	50.4	45.7	32.9	18.9	12.8	20
125	45.6	41.3	29.9	17.4	12.1	14
135	39.4	35.7	26.0	15.5	11.0	9
145	32.2	29.3	22.3	14.7	11.3	5
155	24.5	23.0	20.1	17.1	15.7	1
165	16.3	18.3	19.9	19.3	18.2	
175	12.5	11.9	12.2	13.4	14.1	
180	4.6	4.6	4.6	4.6	4.6	



LEGEND:
0-deg - - - - -
90-deg = = = = =
180-deg - - - - -

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	8	2.4
0- 40	20	5.7
0- 60	64	18.1
0- 90	169	48.0
90-120	107	30.4
90-130	133	37.9
90-150	167	47.5
90-180	183	52.0
0-180	352	100.0

EFFICACY = 48.1 lm/W

CIE TYPE - GENERAL DIFFUSE

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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INDEPENDENT TESTING LABORATORIES, INC.
 4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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

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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	112.5	135.0	157.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1
5.0	2.6	2.5	2.4	2.4	2.4	2.3	2.2	2.0	1.7	1.5	1.4	1.1	0.7	0.2
7.5	4.7	4.6	4.8	4.8	4.7	4.5	4.3	3.9	3.5	3.0	2.8	2.2	1.1	0.3
10.0	7.2	7.1	7.2	7.1	7.1	6.8	6.4	5.9	5.4	4.8	4.4	3.2	1.7	0.4
12.5	9.5	9.4	9.5	9.4	9.2	8.8	8.3	7.8	7.1	6.4	5.9	4.3	2.4	0.5
15.0	11.8	11.8	11.8	11.8	11.4	11.0	10.4	9.7	8.9	8.1	7.6	5.5	3.4	1.0
17.5	14.3	14.2	14.2	14.0	13.6	13.0	12.4	11.6	10.7	9.7	9.2	6.7	4.3	1.7
20.0	16.4	16.4	16.4	16.1	15.6	15.0	14.3	13.4	12.4	11.2	10.6	7.9	5.2	2.3
22.5	18.8	18.7	18.5	18.3	17.8	17.1	16.2	15.3	14.1	12.8	12.2	9.0	6.2	3.1
25.0	21.0	20.9	20.7	20.4	19.8	19.1	18.1	17.0	15.7	14.4	13.6	10.2	7.1	3.8
27.5	23.2	23.2	22.9	22.5	21.9	21.0	19.9	18.7	17.3	15.9	15.0	11.3	8.1	4.6
30.0	25.3	25.3	25.1	24.7	23.9	23.1	21.8	20.5	19.0	17.4	16.5	12.5	8.9	5.4
32.5	27.4	27.5	27.2	26.7	25.9	25.0	23.7	22.2	20.6	18.9	17.9	13.6	9.8	6.2
35.0	29.4	29.6	29.2	28.7	27.9	27.0	25.5	23.9	22.2	20.4	19.3	14.7	10.7	7.0
37.5	31.5	31.6	31.3	30.7	29.8	28.7	27.3	25.6	23.7	21.8	20.7	15.8	11.4	7.8
40.0	33.6	33.6	33.2	32.7	31.7	30.6	29.0	27.2	25.3	23.2	22.0	16.9	12.3	8.6
42.5	35.5	35.6	35.2	34.5	33.6	32.3	30.7	28.9	26.9	24.7	23.4	18.0	13.2	9.3
45.0	37.3	37.1	36.8	36.0	35.1	33.7	31.9	29.9	27.7	25.3	24.1	18.5	13.4	9.9
47.5	39.0	39.0	38.7	37.8	36.8	35.3	33.5	31.4	29.1	26.6	25.3	19.3	14.2	10.5
50.0	40.9	40.7	40.4	39.5	38.4	36.8	35.1	32.8	30.4	27.7	26.4	20.2	14.8	11.0
52.5	42.5	42.3	42.0	41.1	39.9	38.3	36.5	34.2	31.7	28.9	27.4	21.0	15.4	11.4
55.0	44.1	44.0	43.7	42.7	41.5	39.9	37.8	35.5	32.9	30.0	28.6	21.9	16.0	12.0
57.5	45.5	45.5	45.0	44.2	42.9	41.3	39.2	36.7	34.0	31.1	29.6	22.6	16.7	12.5
60.0	46.9	46.9	46.4	45.5	44.2	42.5	40.4	37.8	35.1	32.0	30.5	23.4	17.1	12.9
62.5	48.2	48.2	47.7	46.8	45.4	43.7	41.5	38.9	36.0	32.9	31.3	24.0	17.6	13.2
65.0	49.5	49.5	48.9	48.1	46.6	44.9	42.6	39.9	37.0	33.8	32.1	24.6	18.1	13.6
67.5	50.6	50.5	50.1	49.1	47.7	45.9	43.6	40.9	37.9	34.6	32.9	25.2	18.5	13.9
70.0	51.6	51.6	51.0	50.1	48.6	46.8	44.3	41.6	38.6	35.2	33.5	25.7	18.9	14.2
72.5	52.6	52.5	52.0	50.9	49.5	47.7	45.2	42.4	39.3	35.9	34.1	26.2	19.2	14.5
75.0	53.2	53.3	52.8	51.7	50.2	48.3	45.9	43.0	39.8	36.3	34.6	26.5	19.5	14.6
77.5	54.1	53.9	53.4	52.4	50.9	48.9	46.5	43.6	40.3	36.9	35.0	26.9	19.8	14.9
80.0	54.6	54.5	54.1	53.0	51.4	49.5	47.0	44.0	40.8	37.3	35.4	27.2	20.0	15.1
82.5	55.0	55.0	54.4	53.4	51.8	49.9	47.4	44.4	41.2	37.6	35.8	27.4	20.2	15.2
85.0	55.4	55.3	54.8	53.7	52.1	50.2	47.6	44.7	41.4	37.8	36.0	27.6	20.3	15.3
87.5	55.5	55.5	55.0	54.0	52.3	50.4	47.8	44.8	41.6	38.0	36.1	27.8	20.4	15.4
90.0	55.6	55.5	55.0	53.9	52.4	50.4	47.8	44.9	41.6	38.0	36.1	27.7	20.4	15.4
92.5	55.6	55.5	55.0	53.9	52.3	50.4	47.9	44.8	41.6	38.0	36.1	27.8	20.4	15.4
95.0	55.4	55.4	54.8	53.8	52.2	50.3	47.7	44.8	41.5	37.9	36.1	27.7	20.4	15.4
97.5	55.2	55.1	54.6	53.6	52.0	50.1	47.5	44.5	41.2	37.7	35.9	27.6	20.3	15.3
100.0	54.8	54.8	54.3	53.3	51.7	49.8	47.2	44.3	41.0	37.5	35.7	27.4	20.2	15.3
102.5	54.5	54.4	53.9	52.8	51.4	49.4	46.9	44.0	40.8	37.3	35.5	27.3	20.2	15.3
105.0	53.9	53.8	53.3	52.3	50.7	48.9	46.4	43.5	40.3	36.9	35.1	27.0	19.9	15.1
107.5	53.2	53.1	52.6	51.6	50.1	48.2	45.8	43.0	39.8	36.4	34.6	26.7	19.7	15.0
110.0	52.3	52.3	51.8	50.8	49.3	47.5	45.1	42.3	39.3	35.9	34.1	26.3	19.5	14.8
112.5	51.4	51.3	50.9	50.0	48.5	46.6	44.4	41.6	38.5	35.2	33.5	25.9	19.2	14.6
115.0	50.4	50.4	49.9	49.0	47.5	45.7	43.5	40.8	37.7	34.6	32.9	25.4	18.9	14.4
117.5	49.4	49.3	48.8	47.9	46.5	44.8	42.5	39.9	37.0	33.9	32.2	24.9	18.6	14.2
120.0	48.1	48.1	47.7	46.8	45.4	43.7	41.6	39.0	36.2	33.1	31.6	24.5	18.2	13.9
122.5	46.9	46.8	46.4	45.5	44.2	42.5	40.4	37.9	35.1	32.3	30.7	23.8	17.7	13.6
125.0	45.6	45.5	45.2	44.2	43.0	41.3	39.4	36.9	34.2	31.4	29.9	23.2	17.4	13.5
127.5	44.1	44.0	43.6	42.7	41.6	39.9	38.0	35.6	33.1	30.3	28.9	22.5	16.9	13.0
130.0	42.6	42.5	42.1	41.3	40.2	38.6	36.8	34.5	32.0	29.5	28.0	21.9	16.4	12.7
132.5	41.1	40.9	40.6	39.7	38.7	37.2	35.4	33.3	30.9	28.5	27.1	21.2	16.1	12.5
135.0	39.4	39.1	38.9	38.0	37.0	35.7	33.9	31.9	29.7	27.3	26.0	20.4	15.5	12.2
137.5	37.6	37.4	37.2	36.4	35.5	34.1	32.4	30.5	28.5	26.2	25.0	19.7	15.0	12.0
140.0	35.8	35.8	35.5	34.7	33.9	32.5	31.0	29.2	27.3	25.2	24.0	19.1	14.8	11.8
142.5	34.1	33.9	33.7	33.0	32.2	31.0	29.5	27.8	26.1	24.1	23.1	18.6	14.6	11.9
145.0	32.2	32.0	31.7	31.2	30.4	29.3	28.1	26.5	25.0	23.2	22.3	18.3	14.7	12.1
147.5	30.3	30.1	29.8	29.3	28.7	27.7	26.6	25.3	24.0	22.6	21.8	18.3	15.1	12.7
150.0	28.5	28.3	28.1	27.6	27.0	26.2	25.3	24.1	23.0	21.8	21.1	18.4	15.8	13.7
152.5	26.6	26.4	26.2	25.8	25.2	24.5	23.8	22.9	22.0	21.1	20.5	18.5	16.4	14.9
155.0	24.5	24.4	24.3	23.9	23.4	23.0	22.3	21.7	21.1	20.4	20.1	18.5	17.1	16.0
157.5	22.4	22.2	22.1	21.9	21.6	21.4	21.0	20.6	20.3	20.0	19.8	18.8	17.8	16.8



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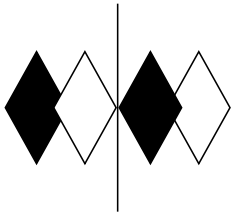
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PREPARED FOR: STONE LIGHTING LLC

CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	112.5	135.0	157.5
160.0	20.2	20.2	20.1	20.1	19.9	19.8	19.8	19.8	20.0	19.9	19.8	19.3	18.3	17.5
162.5	18.1	18.1	18.1	18.2	18.4	18.8	19.2	19.5	19.8	20.0	20.0	19.7	18.8	18.0
165.0	16.3	16.3	16.5	17.1	17.7	18.3	18.9	19.3	19.7	19.9	19.9	19.9	19.3	18.5
167.5	15.4	15.5	16.0	16.5	17.2	17.8	18.3	18.7	18.9	19.1	19.2	19.8	19.5	19.0
170.0	16.0	16.0	16.0	16.1	16.4	16.6	17.0	17.2	17.3	17.4	17.4	18.3	19.0	19.0
172.5	15.3	15.3	15.3	15.2	15.2	15.1	15.2	15.0	15.0	15.0	15.0	15.9	16.8	17.6
175.0	12.5	12.4	12.4	12.1	12.1	11.9	12.0	11.9	12.1	12.2	12.2	12.9	13.4	14.1
177.5	7.1	6.9	7.1	7.1	7.4	7.3	7.7	7.7	8.0	8.3	8.2	8.7	8.9	9.2
180.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6



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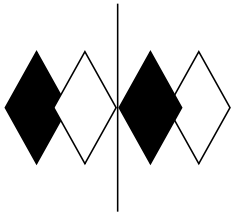
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	180.0
0.0	0.0
2.5	0.0
5.0	0.0
7.5	0.0
10.0	0.1
12.5	0.3
15.0	0.7
17.5	1.2
20.0	1.7
22.5	2.6
25.0	3.4
27.5	4.2
30.0	5.0
32.5	5.8
35.0	6.5
37.5	7.1
40.0	7.8
42.5	8.3
45.0	8.8
47.5	9.3
50.0	9.8
52.5	10.2
55.0	10.7
57.5	11.1
60.0	11.4
62.5	11.7
65.0	12.1
67.5	12.4
70.0	12.7
72.5	12.8
75.0	13.1
77.5	13.2
80.0	13.4
82.5	13.6
85.0	13.6
87.5	13.7
90.0	13.6
92.5	13.7
95.0	13.7
97.5	13.6
100.0	13.7
102.5	13.6
105.0	13.5
107.5	13.4
110.0	13.2
112.5	13.0
115.0	12.8
117.5	12.6
120.0	12.5
122.5	12.2
125.0	12.1
127.5	11.7
130.0	11.4
132.5	11.3
135.0	11.0
137.5	10.9
140.0	10.9
142.5	10.9
145.0	11.3
147.5	11.8
150.0	12.9
152.5	14.4
155.0	15.7
157.5	16.5



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CANDELA DISTRIBUTION
 LATERAL ANGLE

	180.0
160.0	17.1
162.5	17.7
165.0	18.2
167.5	18.7
170.0	18.9
172.5	18.0
175.0	14.1
177.5	8.8
180.0	4.6



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	1
15- 20	1
20- 25	2
25- 30	4
30- 35	5
35- 40	7
40- 45	8
45- 50	10
50- 55	12
55- 60	13
60- 65	15
65- 70	16
70- 75	17
75- 80	18
80- 85	19
85- 90	19
90- 95	19
95-100	19
100-105	19
105-110	18
110-115	17
115-120	15
120-125	14
125-130	12
130-135	11
135-140	9
140-145	8
145-150	6
150-155	5
155-160	4
160-165	3
165-170	2
170-175	1
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	2
0- 30	8
0- 40	20
0- 50	39
0- 60	64
0- 70	95
0- 80	131
0- 90	169
0-100	208
0-110	244
0-120	276
0-130	303
0-140	322
0-150	336
0-160	346
0-170	351
0-180	352



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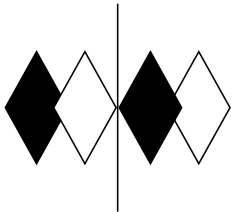
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	
1	92	85	79	74	83	78	72	67	64	60	56	51	48	45	39	37	35	29	
2	81	71	63	56	74	65	57	51	53	47	42	42	37	33	31	28	25	20	
3	73	61	51	44	66	55	47	40	45	38	33	35	30	26	26	22	19	14	
4	66	53	43	35	59	48	39	32	39	32	26	30	25	21	22	18	15	11	
5	60	46	36	29	54	42	33	27	34	27	22	26	21	17	19	15	12	8	
6	55	41	31	25	49	37	29	22	30	23	18	23	18	14	17	13	10	7	
7	50	36	27	21	45	33	25	19	27	20	15	21	16	12	15	11	8	5	
8	46	33	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4	
9	43	30	21	16	39	27	19	14	22	16	11	17	12	9	13	9	6	4	
10	40	27	19	14	36	24	17	12	20	14	10	16	11	8	12	8	5	3	

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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INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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

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ADDRESS: 1500 CHERRY STREET
UNIT W
LOUISVILLE, CO 80027

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