

# itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

REPORT NUMBER: ITL87610-GONIOPHOTOMETRY

PAGE: 1 OF 8

ISSUE DATE: 06/15/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FSLEDH3YYS/120 - FSLEDH3YYS/120/TL

LUMINAIRE: CAST SILVER PAINTED METAL HOUSING/FACEPLATE, CAST SILVER PAINTED METAL CIRCUIT BOARD MOUNTING BASE WITH UNFINISHED CIRCUIT BOARD MOUNTING SURFACE, 1 WHITE CIRCUIT BOARD WITH 3 LEDS, CLEAR FLAT GLASS LENS.

LAMPS: THREE WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 3.01 WATTS, 0.0265 AMPS

MOUNTING: RECESSED WALL

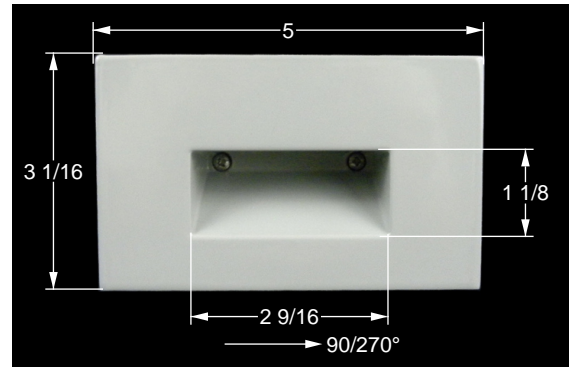
LED DRIVER: INTEGRAL TO CIRCUIT BOARD

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

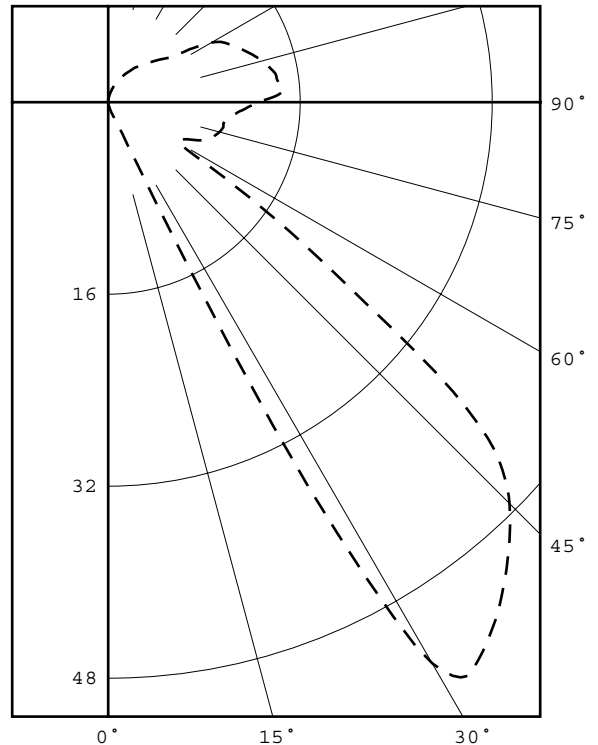
NOTE 2: THIS REPORT WAS PRORATED FROM ITL REPORT NUMBER 87578. BOTH REPORTS REPRESENT A LUMINAIRE WITH 3 LEDS. FACTORS GENERATED FROM COMPARATIVE TESTING HAVE BEEN DERIVED FOR LIGHT OUTPUT, COLOR TEMPERATURE AND WATTAGE AND APPLIED TO THIS REPORT. ACTUAL PERFORMANCE MAY VARY.

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	0.0	0.0	0.0	0.0	0.0	
5	0.1	0.1	0.0	0.0	0.0	0.0
15	0.6	0.3	0.0	0.0	0.0	0.1
25	5.5	1.0	0.0	0.0	0.0	1.2
35	55.0	18.6	0.0	0.0	0.0	7.9
45	47.3	46.7	0.0	0.0	0.0	11.4
55	17.1	36.6	0.0	0.0	0.0	8.6
65	7.3	10.3	0.0	0.0	0.0	3.6
75	9.6	4.9	0.0	0.0	0.0	2.8
85	10.7	5.8	0.0	0.0	0.0	3.2
90	12.5	6.5	0.0	0.0	0.0	
95	14.6	6.7	0.0	0.0	0.0	4.1
105	13.3	6.4	0.0	0.0	0.0	3.7
115	11.3	5.1	0.0	0.0	0.0	2.9
125	6.7	3.8	0.0	0.0	0.0	1.7
135	4.6	2.9	0.0	0.0	0.0	1.0
145	3.2	2.0	0.0	0.0	0.0	0.6
155	2.0	1.3	0.0	0.0	0.0	0.3
165	1.0	0.7	0.0	0.0	0.0	0.1
175	0.3	0.2	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	



LEGEND:  
 0-deg      - - - - -  
 90-deg     \_\_\_\_\_  
 180-deg    - . - . - .

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	1.3	2.4
0- 40	9.2	17.3
0- 60	29.2	54.9
0- 90	38.8	73.0
90-120	10.6	20.0
90-130	12.3	23.2
90-150	14.0	26.3
90-180	14.3	27.0
0-180	53.2	100.0

EFFICACY = 17.7 lm/W  
 CIE TYPE - SEMI-DIRECT  
 PLANE : 0-DEG 90-DEG  
 BEAM ANGLE (50%) : 25.0 X N/A DEGREES  
 FIELD ANGLE (10%) : 104.2 X N/A DEGREES

Checked ..... J. VILLANUEVA  
 Approved ..... R. BEATTIE  
 Lighting Engineer



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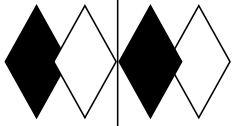
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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	36658.	51704.	0.
55	11044.	33371.	0.
65	4352.	8869.	0.
75	5314.	3798.	0.
85	5719.	4495.	0.



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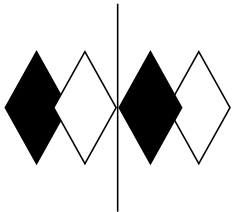
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### CANDELA DISTRIBUTION LATERAL ANGLE

	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	0.0	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
5.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12.5	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.6	0.6	0.6	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
17.5	0.9	0.9	0.9	0.7	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
20.0	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
22.5	1.7	1.7	1.6	1.4	1.0	0.8	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
25.0	5.5	5.1	2.8	1.8	1.4	1.0	0.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0
27.5	36.1	35.3	26.8	7.0	1.8	1.2	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0
30.0	54.0	53.5	47.7	36.1	7.2	1.6	1.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0
32.5	56.3	56.6	56.4	52.8	34.3	2.5	1.1	0.6	0.3	0.1	0.0	0.0	0.0	0.0
35.0	55.0	55.2	55.2	55.1	50.1	18.6	1.4	0.7	0.3	0.1	0.0	0.0	0.0	0.0
37.5	53.4	53.5	53.5	53.5	53.0	37.7	1.7	0.8	0.3	0.1	0.0	0.0	0.0	0.0
40.0	51.5	51.7	51.8	51.8	51.4	49.3	7.8	1.0	0.3	0.1	0.0	0.0	0.0	0.0
42.5	49.5	49.7	49.8	49.9	49.5	48.7	23.1	1.0	0.4	0.1	0.0	0.0	0.0	0.0
45.0	47.3	47.4	47.6	47.7	47.4	46.7	33.6	1.2	0.4	0.1	0.0	0.0	0.0	0.0
47.5	44.2	44.3	44.9	45.3	45.1	44.4	36.0	1.9	0.5	0.1	0.0	0.0	0.0	0.0
50.0	37.5	38.1	40.3	42.2	42.6	42.0	34.1	5.9	0.5	0.1	0.0	0.0	0.0	0.0
52.5	25.2	26.1	30.6	36.7	39.7	39.4	32.2	7.4	0.6	0.1	0.0	0.0	0.0	0.0
55.0	17.1	17.4	19.4	25.7	34.9	36.6	30.0	7.6	0.6	0.1	0.0	0.0	0.0	0.0
57.5	10.3	10.7	13.1	16.8	25.3	33.3	27.5	7.4	0.7	0.1	0.0	0.0	0.0	0.0
60.0	6.9	6.9	7.3	10.3	15.8	27.5	25.1	6.8	0.7	0.2	0.0	0.0	0.0	0.0
62.5	6.8	6.7	6.7	6.8	10.1	16.9	22.3	6.1	0.8	0.2	0.0	0.0	0.0	0.0
65.0	7.3	7.3	7.1	6.6	6.1	10.3	18.2	5.5	1.0	0.2	0.0	0.0	0.0	0.0
67.5	8.3	8.3	8.1	7.3	5.8	5.0	10.9	4.9	1.2	0.2	0.0	0.0	0.0	0.0
70.0	8.9	8.9	8.9	8.3	6.4	4.3	6.6	4.2	1.2	0.2	0.0	0.0	0.0	0.0
72.5	9.3	9.2	9.1	8.7	7.0	4.6	3.0	2.6	1.1	0.2	0.0	0.0	0.0	0.0
75.0	9.6	9.6	9.5	8.9	7.2	4.9	3.0	2.0	1.1	0.3	0.0	0.0	0.0	0.0
77.5	9.8	9.7	9.6	9.1	7.4	5.0	3.1	2.1	1.1	0.3	0.0	0.0	0.0	0.0
80.0	9.8	9.8	9.6	9.1	7.6	5.3	3.3	2.2	1.2	0.3	0.0	0.0	0.0	0.0
82.5	10.2	10.2	9.9	9.2	7.7	5.6	3.5	2.3	1.2	0.3	0.0	0.0	0.0	0.0
85.0	10.7	10.7	10.4	9.7	8.2	5.8	3.6	2.4	1.2	0.3	0.0	0.0	0.0	0.0
87.5	11.5	11.4	11.2	10.5	9.1	6.3	3.9	2.5	1.3	0.3	0.0	0.0	0.0	0.0
90.0	12.5	12.6	12.5	11.9	9.9	6.5	4.2	2.7	1.3	0.3	0.0	0.0	0.0	0.0
92.5	14.2	14.1	14.0	13.3	11.4	6.5	4.3	2.8	1.3	0.3	0.0	0.0	0.0	0.0
95.0	14.6	14.6	14.3	13.6	11.1	6.7	4.5	2.9	1.4	0.3	0.0	0.0	0.0	0.0
97.5	14.2	14.1	13.8	13.3	10.9	6.8	4.5	2.9	1.4	0.3	0.0	0.0	0.0	0.0
100.0	14.1	13.9	13.6	13.1	10.8	6.8	4.5	2.9	1.3	0.3	0.0	0.0	0.0	0.0
102.5	13.7	13.6	13.5	12.6	10.3	6.7	4.5	2.8	1.3	0.3	0.0	0.0	0.0	0.0
105.0	13.3	13.2	12.9	12.1	9.8	6.4	4.4	2.6	1.2	0.3	0.0	0.0	0.0	0.0
107.5	12.8	12.7	12.4	11.6	9.4	6.2	4.3	2.5	1.2	0.3	0.0	0.0	0.0	0.0
110.0	12.3	12.2	11.8	11.0	9.0	5.9	4.0	2.4	1.2	0.3	0.0	0.0	0.0	0.0
112.5	11.8	11.7	11.2	10.6	8.7	5.6	3.8	2.3	1.1	0.3	0.0	0.0	0.0	0.0
115.0	11.3	11.2	10.8	10.1	8.0	5.1	3.6	2.3	1.1	0.3	0.0	0.0	0.0	0.0
117.5	10.8	10.6	10.3	9.4	6.8	4.7	3.4	2.2	1.0	0.3	0.0	0.0	0.0	0.0
120.0	9.9	9.7	9.2	8.1	5.6	4.3	3.2	2.0	1.0	0.3	0.0	0.0	0.0	0.0
122.5	8.4	8.3	7.6	6.3	5.1	4.1	3.0	1.9	1.0	0.3	0.0	0.0	0.0	0.0
125.0	6.7	6.6	6.3	5.6	4.8	3.8	2.8	1.8	1.0	0.2	0.0	0.0	0.0	0.0
127.5	6.0	5.9	5.6	5.1	4.4	3.6	2.6	1.7	0.9	0.2	0.0	0.0	0.0	0.0
130.0	5.5	5.5	5.2	4.8	4.1	3.3	2.4	1.7	0.9	0.2	0.0	0.0	0.0	0.0
132.5	5.0	5.0	4.8	4.3	3.8	3.0	2.3	1.5	0.8	0.2	0.0	0.0	0.0	0.0
135.0	4.6	4.6	4.4	4.0	3.5	2.9	2.2	1.4	0.8	0.2	0.0	0.0	0.0	0.0
137.5	4.3	4.3	4.1	3.7	3.2	2.6	2.0	1.3	0.7	0.2	0.0	0.0	0.0	0.0
140.0	3.9	3.8	3.7	3.4	3.0	2.4	1.8	1.2	0.6	0.2	0.0	0.0	0.0	0.0
142.5	3.6	3.5	3.4	3.0	2.7	2.2	1.7	1.1	0.6	0.2	0.0	0.0	0.0	0.0
145.0	3.2	3.2	3.0	2.8	2.4	2.0	1.6	1.0	0.5	0.1	0.0	0.0	0.0	0.0
147.5	2.9	2.9	2.8	2.5	2.2	1.8	1.4	1.0	0.5	0.1	0.0	0.0	0.0	0.0
150.0	2.6	2.5	2.4	2.3	2.0	1.7	1.2	0.9	0.4	0.1	0.0	0.0	0.0	0.0
152.5	2.3	2.3	2.2	2.0	1.7	1.5	1.1	0.8	0.4	0.1	0.0	0.0	0.0	0.0
155.0	2.0	2.0	1.9	1.7	1.6	1.3	1.0	0.7	0.3	0.1	0.0	0.0	0.0	0.0
157.5	1.7	1.7	1.7	1.6	1.4	1.1	0.9	0.6	0.3	0.1	0.0	0.0	0.0	0.0



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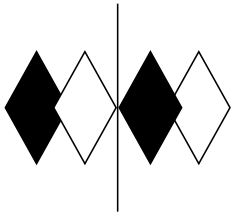
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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	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
160.0	1.6	1.5	1.5	1.3	1.2	1.0	0.8	0.5	0.3	0.1	0.0	0.0	0.0	0.0
162.5	1.2	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.3	0.0	0.0	0.0	0.0	0.0
165.0	1.0	1.0	0.9	0.8	0.8	0.7	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
167.5	0.8	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
170.0	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
172.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
175.0	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
177.5	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	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



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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	0.0
12.5	0.0
15.0	0.0
17.5	0.0
20.0	0.0
22.5	0.0
25.0	0.0
27.5	0.0
30.0	0.0
32.5	0.0
35.0	0.0
37.5	0.0
40.0	0.0
42.5	0.0
45.0	0.0
47.5	0.0
50.0	0.0
52.5	0.0
55.0	0.0
57.5	0.0
60.0	0.0
62.5	0.0
65.0	0.0
67.5	0.0
70.0	0.0
72.5	0.0
75.0	0.0
77.5	0.0
80.0	0.0
82.5	0.0
85.0	0.0
87.5	0.0
90.0	0.0
92.5	0.0
95.0	0.0
97.5	0.0
100.0	0.0
102.5	0.0
105.0	0.0
107.5	0.0
110.0	0.0
112.5	0.0
115.0	0.0
117.5	0.0
120.0	0.0
122.5	0.0
125.0	0.0
127.5	0.0
130.0	0.0
132.5	0.0
135.0	0.0
137.5	0.0
140.0	0.0
142.5	0.0
145.0	0.0
147.5	0.0
150.0	0.0
152.5	0.0
155.0	0.0
157.5	0.0



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CANDELA DISTRIBUTION  
LATERAL ANGLE

	180.0
160.0	0.0
162.5	0.0
165.0	0.0
167.5	0.0
170.0	0.0
172.5	0.0
175.0	0.0
177.5	0.0
180.0	0.0



INDEPENDENT TESTING LABORATORIES, INC.  
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PREPARED FOR: RAB LIGHTING INC.

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5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	0.0
5- 10	0.0
10- 15	0.0
15- 20	0.0
20- 25	0.1
25- 30	1.1
30- 35	3.3
35- 40	4.7
40- 45	5.6
45- 50	5.8
50- 55	5.1
55- 60	3.5
60- 65	2.1
65- 70	1.5
70- 75	1.4
75- 80	1.4
80- 85	1.5
85- 90	1.7
90- 95	2.0
95-100	2.1
100-105	1.9
105-110	1.8
110-115	1.6
115-120	1.3
120-125	1.0
125-130	0.7
130-135	0.6
135-140	0.5
140-145	0.3
145-150	0.2
150-155	0.2
155-160	0.1
160-165	0.1
165-170	0.0
170-175	0.0
175-180	0.0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	0.0
0- 20	0.1
0- 30	1.3
0- 40	9.2
0- 50	20.6
0- 60	29.2
0- 70	32.8
0- 80	35.6
0- 90	38.8
0-100	42.9
0-110	46.6
0-120	49.5
0-130	51.2
0-140	52.2
0-150	52.8
0-160	53.1
0-170	53.1
0-180	53.2



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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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	100	95	90	85	95	90	85	81	81	77	74	72	69	67	64	62	60	56
2	90	81	74	67	85	77	70	64	69	63	59	62	57	53	55	51	48	45
3	81	70	61	54	76	66	58	52	59	53	47	53	48	43	47	43	39	36
4	73	60	51	44	69	57	49	42	51	44	39	46	40	35	41	36	32	29
5	66	53	43	36	62	50	41	35	45	37	32	40	34	29	35	30	26	23
6	60	46	37	30	57	44	35	29	39	32	26	35	29	24	31	26	22	19
7	55	41	31	25	52	39	30	24	35	27	22	31	25	20	27	22	18	15
8	50	36	27	21	47	34	26	20	31	24	18	27	21	17	24	19	15	13
9	46	32	24	18	44	31	23	17	27	21	16	24	18	14	22	16	13	10
10	43	29	21	15	40	28	20	15	25	18	13	22	16	12	19	14	11	9

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.