

# 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: ITL87619-GONIOPHOTOMETRY

PAGE: 1 OF 8

ISSUE DATE: 06/16/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FSLEDV3YYW/120 - FSLEDV3YYW/120/TL

LUMINAIRE: CAST WHITE PAINTED METAL HOUSING/FACEPLATE, CAST WHITE 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.

LED DRIVER: INTEGRAL TO CIRCUIT BOARD

INPUT ELECTRICAL: 120.0 VOLTS, 2.98 WATTS, 0.0262 AMPS

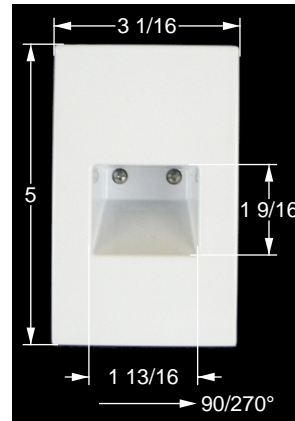
MOUNTING: RECESSED WALL

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 87587. 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

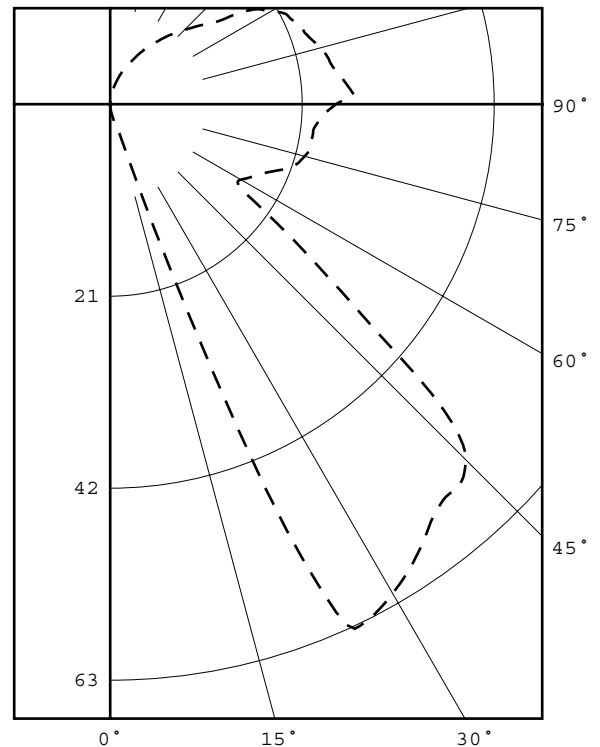
TEST DISTANCE = 20.0 FEET



### CANDELA DISTRIBUTION

### FLUX

	0.0	45.0	90.0	135.0	180.0	
0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.5	0.3	0.0	0.0	0.0	0.3
15	2.3	1.4	0.0	0.0	0.0	5.2
25	63.3	3.5	0.0	0.0	0.0	10.5
35	59.2	44.7	0.0	0.0	0.0	12.0
45	55.0	40.1	0.0	0.0	0.0	8.5
55	21.2	33.5	0.0	0.0	0.0	5.9
65	18.1	13.6	0.0	0.0	0.0	6.6
75	22.0	12.9	0.0	0.0	0.0	7.2
85	22.8	14.0	0.0	0.0	0.0	7.5
90	24.7	14.2	0.0	0.0	0.0	6.7
95	25.9	14.0	0.0	0.0	0.0	5.6
105	23.8	13.2	0.0	0.0	0.0	4.0
115	21.9	11.4	0.0	0.0	0.0	2.5
125	17.6	9.1	0.0	0.0	0.0	1.4
135	11.5	6.9	0.0	0.0	0.0	0.7
145	8.0	4.8	0.0	0.0	0.0	0.2
155	4.9	3.1	0.0	0.0	0.0	0.0
165	2.5	1.6	0.0	0.0	0.0	
175	0.6	0.4	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	5.5	6.5
0- 40	16.0	18.8
0- 60	36.5	42.9
0- 90	56.1	66.1
90-120	19.8	23.4
90-130	23.9	28.1
90-150	27.8	32.8
90-180	28.7	33.9
0-180	84.9	100.0

EFFICACY = 28.5 lm/W

CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG

BEAM ANGLE (50%) : 30.3 X N/A DEGREES

FIELD ANGLE (10%) : 132.2 X N/A DEGREES

Checked J. VILLANUEVA

Approved R. BEATTIE  
Lighting Engineer



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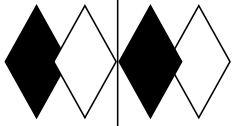
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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	42625.	44397.	0.
55	14287.	32453.	0.
65	10790.	11711.	0.
75	12630.	10524.	0.
85	12621.	10850.	0.



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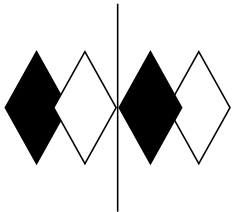
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### CANDELA DISTRIBUTION LATERAL ANGLE

	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	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
7.5	0.9	0.9	0.9	0.8	0.7	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
10.0	1.3	1.3	1.2	1.2	1.1	0.9	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
12.5	1.8	1.8	1.7	1.6	1.3	1.1	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0
15.0	2.3	2.3	2.2	2.0	1.8	1.4	1.1	0.7	0.4	0.1	0.0	0.0	0.0	0.0
17.5	3.2	3.2	3.0	2.6	2.1	1.8	1.4	0.9	0.4	0.1	0.0	0.0	0.0	0.0
20.0	19.0	17.2	8.8	3.9	2.8	2.1	1.6	1.1	0.5	0.1	0.0	0.0	0.0	0.0
22.5	50.4	49.0	43.8	32.1	5.2	2.7	1.9	1.2	0.6	0.1	0.0	0.0	0.0	0.0
25.0	63.3	63.5	62.0	54.7	34.8	3.5	2.2	1.5	0.8	0.1	0.0	0.0	0.0	0.0
27.5	62.8	62.9	62.6	62.1	56.1	14.8	2.6	1.7	0.9	0.1	0.0	0.0	0.0	0.0
30.0	61.8	62.0	61.7	61.4	63.0	29.7	3.3	1.8	1.0	0.2	0.0	0.0	0.0	0.0
32.5	60.6	60.7	60.4	60.4	61.8	43.5	10.9	2.1	1.1	0.2	0.0	0.0	0.0	0.0
35.0	59.2	59.3	59.0	59.1	60.5	44.7	20.4	2.4	1.2	0.2	0.0	0.0	0.0	0.0
37.5	57.6	57.7	57.5	57.6	59.0	44.5	22.0	2.6	1.3	0.3	0.0	0.0	0.0	0.0
40.0	56.6	56.6	55.9	55.9	57.1	43.1	22.6	2.9	1.4	0.3	0.0	0.0	0.0	0.0
42.5	56.5	56.5	55.4	54.5	55.2	41.6	23.0	3.3	1.6	0.3	0.0	0.0	0.0	0.0
45.0	55.0	55.0	54.8	53.9	53.3	40.1	22.3	3.7	1.7	0.4	0.0	0.0	0.0	0.0
47.5	49.5	49.7	51.1	52.4	51.5	38.4	21.7	4.2	1.8	0.4	0.0	0.0	0.0	0.0
50.0	36.2	36.5	41.0	47.7	49.5	36.8	20.9	5.2	2.0	0.4	0.0	0.0	0.0	0.0
52.5	27.6	27.6	29.1	35.7	45.4	35.3	20.4	5.7	2.2	0.4	0.0	0.0	0.0	0.0
55.0	21.2	21.4	23.6	26.4	34.7	33.5	19.9	6.0	2.4	0.4	0.0	0.0	0.0	0.0
57.5	16.8	16.8	17.4	20.6	24.3	30.0	19.2	6.1	2.6	0.4	0.0	0.0	0.0	0.0
60.0	16.5	16.5	16.3	16.2	19.4	23.7	18.4	6.3	2.6	0.5	0.0	0.0	0.0	0.0
62.5	17.3	17.2	16.9	15.9	14.3	19.3	16.8	6.4	2.8	0.5	0.0	0.0	0.0	0.0
65.0	18.1	18.0	17.7	16.5	14.0	13.6	13.0	6.6	2.9	0.5	0.0	0.0	0.0	0.0
67.5	19.2	19.0	18.5	17.2	14.6	11.8	10.3	6.8	3.1	0.6	0.0	0.0	0.0	0.0
70.0	20.6	20.4	19.8	18.1	15.1	12.1	10.0	6.9	3.2	0.6	0.0	0.0	0.0	0.0
72.5	21.5	21.3	20.6	18.8	15.8	12.6	10.3	7.0	3.3	0.6	0.0	0.0	0.0	0.0
75.0	22.0	21.8	21.1	19.3	16.2	12.9	10.5	7.0	3.3	0.6	0.0	0.0	0.0	0.0
77.5	22.4	22.3	21.5	19.6	16.5	13.3	10.7	7.0	3.3	0.7	0.0	0.0	0.0	0.0
80.0	22.4	22.4	21.7	19.8	16.8	13.6	10.7	7.0	3.4	0.7	0.0	0.0	0.0	0.0
82.5	22.4	22.3	21.7	19.8	17.0	13.7	10.8	7.0	3.5	0.7	0.0	0.0	0.0	0.0
85.0	22.8	22.6	22.1	20.2	17.3	14.0	10.9	7.1	3.5	0.7	0.0	0.0	0.0	0.0
87.5	23.5	23.4	22.8	20.7	17.8	14.3	11.1	7.1	3.5	0.7	0.0	0.0	0.0	0.0
90.0	24.7	24.6	24.0	21.0	17.6	14.2	10.9	7.0	3.5	0.8	0.0	0.0	0.0	0.0
92.5	26.6	26.2	25.1	21.6	17.3	14.0	10.7	7.0	3.5	0.7	0.0	0.0	0.0	0.0
95.0	25.9	25.7	24.6	21.0	17.1	14.0	10.7	7.0	3.4	0.7	0.0	0.0	0.0	0.0
97.5	25.2	25.0	24.2	20.5	16.9	13.9	10.6	6.8	3.4	0.7	0.0	0.0	0.0	0.0
100.0	24.6	24.5	23.4	20.2	16.6	13.8	10.3	6.6	3.3	0.7	0.0	0.0	0.0	0.0
102.5	24.3	24.3	23.3	19.7	16.4	13.6	10.0	6.4	3.3	0.7	0.0	0.0	0.0	0.0
105.0	23.8	23.8	22.7	19.4	16.0	13.2	9.7	6.2	3.1	0.7	0.0	0.0	0.0	0.0
107.5	23.2	23.2	22.4	18.9	15.7	12.9	9.3	6.0	3.0	0.7	0.0	0.0	0.0	0.0
110.0	22.7	22.7	21.7	18.6	15.2	12.5	9.0	5.7	2.9	0.6	0.0	0.0	0.0	0.0
112.5	22.5	22.3	21.4	18.1	14.9	12.0	8.5	5.5	2.8	0.6	0.0	0.0	0.0	0.0
115.0	21.9	21.8	21.0	17.7	14.3	11.4	8.2	5.2	2.6	0.5	0.0	0.0	0.0	0.0
117.5	21.5	21.4	20.3	16.9	13.6	10.7	7.7	5.0	2.6	0.5	0.0	0.0	0.0	0.0
120.0	20.3	20.2	19.4	16.0	12.8	10.2	7.4	4.8	2.5	0.5	0.0	0.0	0.0	0.0
122.5	19.3	19.2	18.0	14.9	12.0	9.6	7.0	4.5	2.3	0.5	0.0	0.0	0.0	0.0
125.0	17.6	17.3	16.0	13.3	11.3	9.1	6.6	4.3	2.2	0.4	0.0	0.0	0.0	0.0
127.5	14.9	14.7	13.7	12.3	10.6	8.5	6.3	4.0	2.0	0.4	0.0	0.0	0.0	0.0
130.0	13.6	13.5	12.8	11.5	9.9	7.9	5.8	3.8	1.9	0.4	0.0	0.0	0.0	0.0
132.5	12.5	12.4	11.8	10.7	9.2	7.4	5.5	3.6	1.8	0.4	0.0	0.0	0.0	0.0
135.0	11.5	11.4	10.9	9.9	8.5	6.9	5.1	3.3	1.8	0.4	0.0	0.0	0.0	0.0
137.5	10.6	10.6	10.0	9.1	7.8	6.3	4.8	3.1	1.6	0.4	0.0	0.0	0.0	0.0
140.0	9.7	9.7	9.2	8.4	7.2	5.8	4.3	2.9	1.5	0.4	0.0	0.0	0.0	0.0
142.5	8.8	8.8	8.4	7.6	6.6	5.4	4.0	2.6	1.4	0.3	0.0	0.0	0.0	0.0
145.0	8.0	7.9	7.6	6.9	6.0	4.8	3.7	2.5	1.2	0.3	0.0	0.0	0.0	0.0
147.5	7.2	7.1	6.9	6.3	5.4	4.4	3.3	2.2	1.1	0.3	0.0	0.0	0.0	0.0
150.0	6.4	6.3	6.1	5.5	4.8	4.0	3.0	2.0	1.1	0.3	0.0	0.0	0.0	0.0
152.5	5.6	5.6	5.4	4.9	4.3	3.5	2.6	1.8	1.0	0.2	0.0	0.0	0.0	0.0
155.0	4.9	4.9	4.8	4.3	3.8	3.1	2.4	1.6	0.9	0.2	0.0	0.0	0.0	0.0
157.5	4.3	4.3	4.1	3.8	3.3	2.7	2.0	1.4	0.7	0.2	0.0	0.0	0.0	0.0



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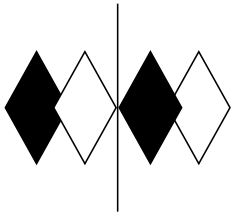
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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	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	3.7	3.6	3.5	3.3	2.8	2.4	1.8	1.2	0.6	0.2	0.0	0.0	0.0	0.0
162.5	3.1	3.1	2.9	2.7	2.4	1.9	1.5	1.1	0.5	0.1	0.0	0.0	0.0	0.0
165.0	2.5	2.5	2.4	2.2	1.9	1.6	1.2	0.9	0.4	0.1	0.0	0.0	0.0	0.0
167.5	2.0	1.9	1.9	1.8	1.6	1.3	1.0	0.7	0.4	0.1	0.0	0.0	0.0	0.0
170.0	1.5	1.5	1.4	1.3	1.1	1.0	0.8	0.5	0.3	0.1	0.0	0.0	0.0	0.0
172.5	1.1	1.1	1.0	1.0	0.8	0.7	0.5	0.4	0.2	0.1	0.0	0.0	0.0	0.0
175.0	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0
177.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	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



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REPORT NUMBER: ITL87619-GONIOPHOTOMETRY  
 ISSUE DATE: 06/16/16  
 PREPARED FOR: RAB LIGHTING INC.

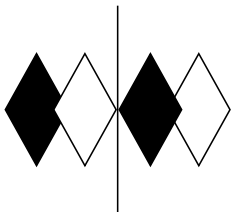
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5-DEGREE  
 ZONAL LUMEN SUMMARY

0- 5	0.0
5- 10	0.0
10- 15	0.1
15- 20	0.2
20- 25	1.6
25- 30	3.6
30- 35	4.9
35- 40	5.6
40- 45	6.0
45- 50	6.0
50- 55	4.9
55- 60	3.6
60- 65	3.0
65- 70	2.9
70- 75	3.2
75- 80	3.4
80- 85	3.5
85- 90	3.7
90- 95	3.8
95-100	3.7
100-105	3.5
105-110	3.2
110-115	3.0
115-120	2.7
120-125	2.2
125-130	1.8
130-135	1.4
135-140	1.1
140-145	0.8
145-150	0.6
150-155	0.4
155-160	0.3
160-165	0.1
165-170	0.1
170-175	0.0
175-180	0.0

10-DEGREE  
 ZONAL LUMEN SUMMARY

0- 10	0.0
0- 20	0.3
0- 30	5.5
0- 40	16.0
0- 50	28.0
0- 60	36.5
0- 70	42.3
0- 80	48.9
0- 90	56.1
0-100	63.6
0-110	70.3
0-120	76.0
0-130	80.0
0-140	82.5
0-150	84.0
0-160	84.6
0-170	84.9
0-180	84.9



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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	11	11	11	11	11	11	11	11	11	10	41	10	41	10	41	10	41	10	41	92	92	92	81	81	81	71	71	71	66
1	98	92	86	81	91	86	81	77	75	72	68	66	63	60	57	55	53	48	48	45	42	38							
2	88	78	70	64	82	73	66	60	64	59	54	56	51	48	48	45	42	38	37	34	30	30							
3	79	67	59	51	74	63	55	49	55	49	44	48	43	39	41	37	34	30	36	32	28	24							
4	72	59	49	42	67	55	47	40	48	41	36	42	36	32	36	32	28	24	32	27	23	20							
5	65	52	42	35	61	49	40	33	43	35	30	37	31	27	32	27	23	20	28	23	20	17							
6	60	46	36	30	55	43	34	28	38	31	25	33	27	22	28	23	20	17	25	20	17	14							
7	55	41	32	25	51	38	30	24	34	27	22	29	23	19	25	20	17	14	23	18	14	12							
8	50	36	28	22	47	34	26	21	30	23	18	26	21	16	23	18	14	12	21	16	12	10							
9	47	33	24	19	43	31	23	18	27	21	16	24	18	14	21	16	12	10	19	14	11	9							
10	43	30	22	16	40	28	21	15	25	18	14	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.