



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

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

PAGE: 1 OF 8

REPORT NUMBER: ITL85561

ISSUE DATE: 09/14/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: DR2-LED-e59-1

LUMINAIRE: MOLDED PLASTIC HOUSING, ONE LED MODULE CONSISTING OF: MACHINED METAL HOUSING/CIRCUIT BOARD MOUNTING BASE, 1 GREEN CIRCUIT BOARD WITH 1 LED, CLEAR FLUTED PLASTIC OPTIC ABOVE LED WITH RECESSED FROSTED BOTTOM CENTER AND CLEAR CONCAVE TOP CENTER WITH FLUTED FROSTED PERIMETER, FABRICATED SEMI-DIFFUSE METAL OPTIC RETAINING BRACKET, FROSTED GLASS LENS IN CAST BLACK PAINTED METAL FACEPLATE WITH 1 APERTURE, LENS FROSTED SIDE IN.

LAMP: ONE WHITE LIGHT EMITTING DIODE (LED) WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 8.40 WATTS, 0.117 AMPS

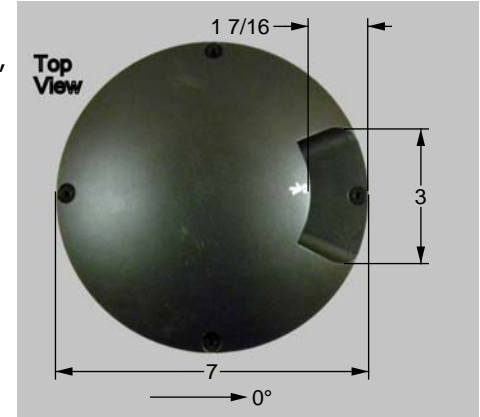
MOUNTING: IN-GRADE

LED DRIVER: B-K LIGHTING 524438/400188-L, POWER SELECT PS20U15K POWER SUPPLY.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

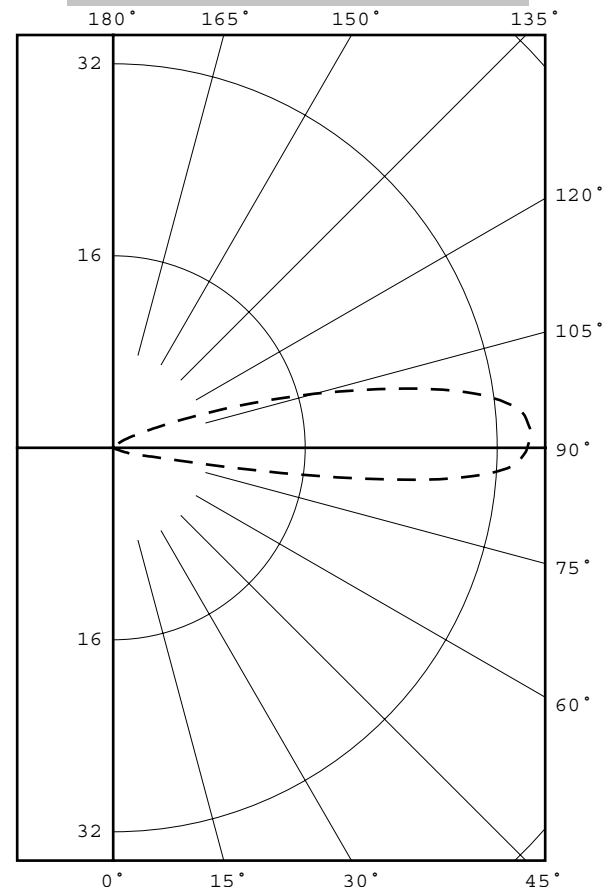
	0.0	45.0	90.0	135.0	180.0	FLUX
0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0
65	0.3	0.0	0.0	0.0	0.0	0.1
75	2.4	0.1	0.0	0.0	0.0	0.5
85	28.8	0.6	0.0	0.0	0.0	4.3
90	34.5	1.0	0.0	0.0	0.0	
95	34.2	1.3	0.0	0.0	0.0	5.8
105	17.4	1.0	0.0	0.0	0.0	3.0
115	4.0	0.4	0.0	0.0	0.0	0.7
125	1.2	0.1	0.0	0.0	0.0	0.2
135	0.4	0.1	0.0	0.0	0.0	0.1
145	0.1	0.0	0.0	0.0	0.0	0.0
155	0.1	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0
175	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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	0.0	0.0
0- 40	0.0	0.0
0- 60	0.0	0.0
0- 90	4.9	33.2
90-120	9.5	65.1
90-130	9.7	66.3
90-150	9.8	66.8
90-180	9.8	66.8
0-180	14.6	100.0

EFFICACY = 1.7 lm/W

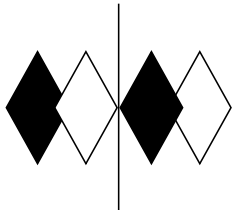
CIE TYPE - SEMI-INDIRECT



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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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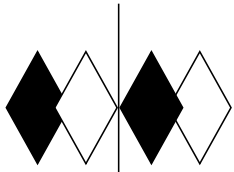
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LATERAL ANGLE

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	95.0	105.0	115.0
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	0.0
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	0.0	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
7.5	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
10.0	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
12.5	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
15.0	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
17.5	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
20.0	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
22.5	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
25.0	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
27.5	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
30.0	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
32.5	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
35.0	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
37.5	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
40.0	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
42.5	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
45.0	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
47.5	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
50.0	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
52.5	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
55.0	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
57.5	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
60.0	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
62.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.0	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5	0.6	0.6	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	1.1	1.1	1.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	1.7	1.7	1.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0	2.4	2.4	2.1	1.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	3.6	3.7	3.3	2.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	8.2	8.2	7.5	4.4	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.0	12.0	11.9	11.1	6.6	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.0	16.5	16.4	15.3	9.3	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	21.2	21.1	19.9	12.4	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.0	25.5	25.4	24.0	15.7	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	28.8	28.7	27.3	18.7	3.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5	30.1	30.0	28.5	20.0	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.0	31.3	31.1	29.6	21.2	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5	32.1	32.0	30.5	22.2	4.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	32.9	32.8	31.3	23.1	4.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	33.4	33.3	31.8	23.8	4.7	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.0	33.7	33.7	32.1	24.3	4.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5	34.0	33.9	32.4	24.8	5.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.0	34.2	34.2	32.7	25.1	5.3	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5	34.4	34.3	32.9	25.3	5.4	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	34.5	34.4	33.0	25.5	5.6	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5	34.6	34.6	33.1	25.7	5.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.0	34.7	34.6	33.2	25.7	5.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5	34.7	34.7	33.2	25.7	5.9	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.0	34.7	34.7	33.2	25.7	6.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	34.8	34.7	33.2	25.6	6.1	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	34.7	34.6	33.1	25.5	6.2	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5	34.6	34.5	33.0	25.3	6.2	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.0	34.5	34.4	32.9	25.2	6.3	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5	34.4	34.2	32.6	24.9	6.3	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	34.2	33.9	32.4	24.6	6.3	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5	33.8	33.6	32.0	24.3	6.2	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.0	33.5	33.2	31.6	23.9	6.2	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5	33.0	32.8	31.2	23.5	6.1	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	32.5	32.2	30.7	23.0	6.1	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	31.9	31.7	30.1	22.5	6.0	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.0	31.3	31.0	29.5	21.8	5.8	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	95.0	105.0	115.0
98.5	30.5	30.2	28.8	21.2	5.7	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.0	29.7	29.4	28.0	20.5	5.6	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5	28.8	28.8	27.2	19.8	5.4	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	27.9	27.7	26.3	19.1	5.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5	26.8	26.9	25.3	18.3	5.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.0	25.8	25.6	24.4	17.5	4.9	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5	24.7	24.8	23.4	16.7	4.7	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.0	23.6	23.5	22.4	15.9	4.5	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	22.6	22.7	21.3	15.1	4.4	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.0	21.4	21.4	20.3	14.3	4.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5	20.4	20.6	19.3	13.5	4.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.0	19.4	19.5	18.3	12.8	3.8	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5	18.4	18.5	17.3	12.1	3.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	17.4	17.5	16.4	11.3	3.5	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.0	15.4	15.6	14.5	9.9	3.2	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	13.6	13.7	12.7	8.6	2.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.0	11.9	12.0	11.1	7.4	2.6	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.0	10.3	10.4	9.5	6.4	2.3	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	8.8	8.9	8.1	5.4	2.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	5.9	5.9	5.4	3.5	1.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	4.0	4.0	3.6	2.3	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	2.9	2.9	2.6	1.7	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	2.1	2.1	1.8	1.2	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	1.6	1.6	1.4	0.9	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	1.2	1.2	1.0	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.9	0.9	0.8	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.6	0.6	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.4	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	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	0.0
147.5	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
160.0	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
162.5	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
165.0	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
167.5	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
170.0	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
172.5	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
175.0	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
177.5	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
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

	125.0	135.0	145.0	155.0	165.0	175.0	180.0
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
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION
LATERAL ANGLE

	125.0	135.0	145.0	155.0	165.0	175.0	180.0
98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	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



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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	0.0
25- 30	0.0
30- 35	0.0
35- 40	0.0
40- 45	0.0
45- 50	0.0
50- 55	0.0
55- 60	0.0
60- 65	0.0
65- 70	0.0
70- 75	0.1
75- 80	0.4
80- 85	1.5
85- 90	2.8
90- 95	3.1
95-100	2.7
100-105	1.9
105-110	1.1
110-115	0.5
115-120	0.2
120-125	0.1
125-130	0.1
130-135	0.0
135-140	0.0
140-145	0.0
145-150	0.0
150-155	0.0
155-160	0.0
160-165	0.0
165-170	0.0
170-175	0.0
175-180	0.0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0.0
0- 20	0.0
0- 30	0.0
0- 40	0.0
0- 50	0.0
0- 60	0.0
0- 70	0.1
0- 80	0.5
0- 90	4.9
0-100	10.7
0-110	13.7
0-120	14.4
0-130	14.6
0-140	14.6
0-150	14.6
0-160	14.6
0-170	14.6
0-180	14.6



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	83	74	66	59	73	65	58	52	49	43	38	33	29	25	19	16	13	6
2	74	63	53	45	65	55	47	39	40	34	28	27	22	18	15	11	8	2
3	67	54	45	37	59	48	39	32	35	28	23	23	18	14	13	9	6	1
4	61	48	38	31	54	42	33	27	31	24	19	21	16	12	11	8	5	0
5	56	43	33	26	49	37	29	23	28	21	16	19	14	10	10	7	4	0
6	52	38	29	22	46	34	25	19	25	19	14	17	12	9	10	6	4	0
7	48	34	25	19	42	30	22	17	23	17	12	15	11	8	9	6	3	0
8	44	31	22	17	39	27	20	15	21	15	11	14	10	7	8	5	3	0
9	41	28	20	15	36	25	18	13	19	13	9	13	9	6	8	5	2	0
10	39	26	18	13	34	23	16	11	17	12	8	12	8	5	7	4	2	0

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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