

REPORT NUMBER: ITL86256

PAGE: 1 OF 8

ISSUE DATE: 01/06/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MD-LED-e72-1

LUMINAIRE: CYLINDRICAL PLASTIC HOUSING WITH CAST BLACK PAINTED METAL TRIM.

ONE LED MODULE CONSISTING OF: MACHINED CYLINDRICAL METAL HOUSING, MACHINED METAL CIRCUIT BOARD MOUNTING BASE, 1 BLACK CIRCUIT BOARD WITH 1 LED, CLEAR PLASTIC OPTIC ABOVE LED WITH RECESSED TOP CENTER, CLEAR FROSTED GLASS LENS IN CAST BLACK PAINTED METAL FACEPLATE WITH 1 APERTURE, LENS FROSTED SIDE IN.

LAMP: ONE WHITE LIGHT EMITTING DIODE (LED), VERTICAL BASE-DOWN POSITION.

INPUT ELECTRICAL: 12.0 VOLTS, 2.52 WATTS, 0.327 AMPS

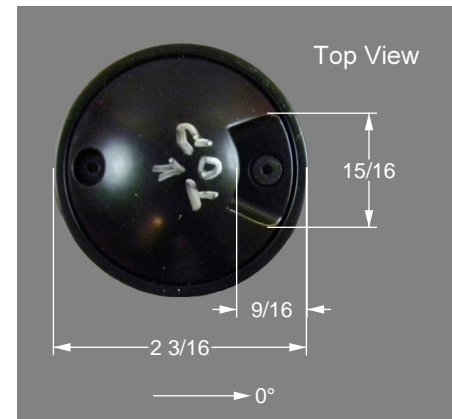
MOUNTING: IN-GRADE

LED DRIVER: B-K LIGHTING 518801/400187-F

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



CANDELA DISTRIBUTION

FLUX

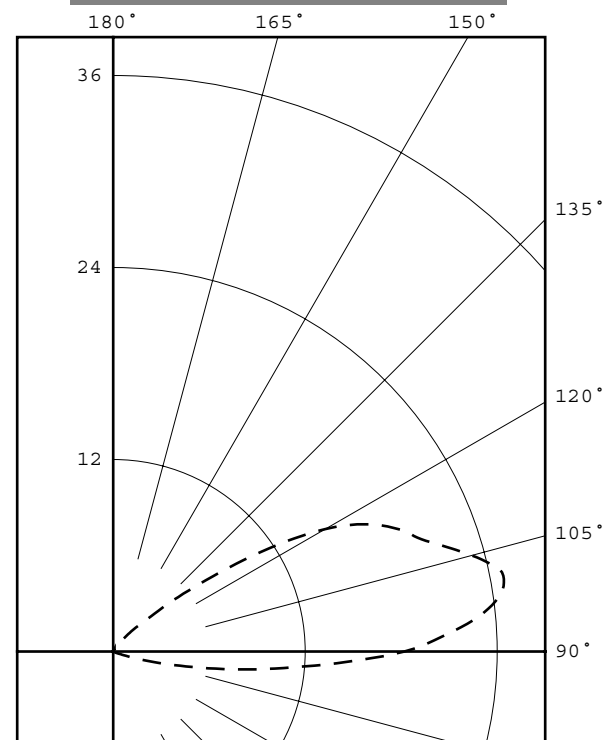
	0.0	45.0	90.0	135.0	180.0	
0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0
75	2.4	0.3	0.0	0.0	0.0	0.5
85	11.3	1.1	0.0	0.0	0.0	2.2
90	18.2	1.3	0.0	0.0	0.0	
95	22.6	1.5	0.0	0.0	0.0	4.3
105	23.2	1.5	0.0	0.0	0.0	4.4
115	18.6	1.5	0.0	0.0	0.0	3.2
125	10.0	1.1	0.0	0.0	0.0	1.6
135	2.5	0.5	0.0	0.0	0.0	0.4
145	0.6	0.1	0.0	0.0	0.0	0.1
155	0.1	0.1	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	2.7	16.4
90-120	11.9	71.1
90-130	13.5	80.7
90-150	14.0	83.6
90-180	14.0	83.6
0-180	16.7	100.0

EFFICACY = 6.6 lm/W

CIE TYPE - SEMI-INDIRECT

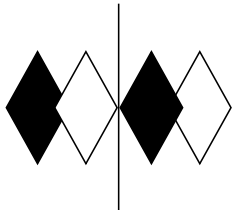


LEGEND:

0-deg -----
90-deg =====
180-deg -----

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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NVLAP
NVLAP LAB CODE: 200925-0

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

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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	0.0	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
65.0	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
67.5	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	0.5	0.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5	1.2	1.2	1.1	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0	2.4	2.5	2.4	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	3.9	3.9	3.9	2.9	1.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.0	6.0	6.0	5.9	4.5	1.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5	8.6	8.6	8.2	6.6	2.5	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	11.3	11.4	10.6	8.9	3.1	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5	14.7	14.7	13.6	11.5	4.1	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	18.2	18.2	16.8	14.2	5.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	20.5	20.5	19.3	16.5	6.8	1.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
95.0	22.6	22.4	21.7	18.5	8.2	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5	24.1	24.0	23.2	19.8	9.1	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
100.0	24.8	24.8	23.9	20.1	9.1	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5	24.5	24.4	23.6	19.6	8.8	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
105.0	23.2	23.1	22.3	18.3	8.5	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5	21.8	21.7	20.8	17.0	8.3	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
110.0	20.5	20.5	19.5	16.0	8.2	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
112.5	19.7	19.5	18.5	15.3	7.9	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
115.0	18.6	18.5	17.4	14.4	7.4	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
117.5	17.2	17.0	15.8	12.9	6.6	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
120.0	15.3	15.1	14.1	11.4	5.6	1.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
122.5	12.8	12.5	11.7	9.3	4.5	1.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
125.0	10.0	9.8	9.2	7.2	3.5	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
127.5	7.3	7.1	6.7	5.4	2.7	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
130.0	5.3	5.1	4.9	3.9	2.0	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
132.5	3.5	3.4	3.2	2.6	1.5	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
135.0	2.5	2.4	2.3	1.8	1.1	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
137.5	1.8	1.7	1.6	1.3	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
140.0	1.2	1.2	1.1	0.9	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.8	0.8	0.8	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.6	0.6	0.5	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.2	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
152.5	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	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

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



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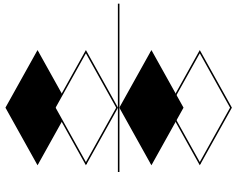
PAGE: 3 OF 8

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PREPARED FOR: B-K LIGHTING, INC.

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	95.0	105.0	115.0
160.0	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
162.5	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	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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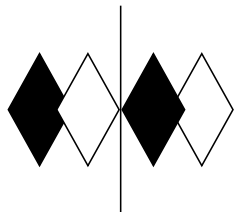
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	125.0	135.0	145.0	155.0	165.0	175.0	180.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	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
82.5	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
87.5	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
92.5	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
97.5	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
102.5	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
107.5	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



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CANDELA DISTRIBUTION
LATERAL ANGLE

	125.0	135.0	145.0	155.0	165.0	175.0	180.0
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	0.8
85- 90	1.4
90- 95	2.0
95-100	2.3
100-105	2.3
105-110	2.0
110-115	1.8
115-120	1.5
120-125	1.0
125-130	0.6
130-135	0.3
135-140	0.1
140-145	0.1
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	0.0
0- 80	0.5
0- 90	2.7
0-100	7.0
0-110	11.4
0-120	14.6
0-130	16.2
0-140	16.6
0-150	16.7
0-160	16.7
0-170	16.7
0-180	16.7



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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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	16
1	85	79	73	68	74	68	64	59	49	45	42	31	28	26	14	13	11	3
2	77	68	60	54	66	59	52	47	42	37	33	26	23	20	11	9	8	1
3	70	59	51	44	60	51	44	38	36	31	27	22	19	16	10	8	6	0
4	63	52	43	37	55	45	38	32	32	27	23	20	17	14	9	7	5	0
5	58	46	37	31	50	40	33	27	28	23	19	18	14	12	8	6	4	0
6	53	41	33	27	46	36	28	23	25	20	17	16	13	10	7	5	4	0
7	49	37	29	23	42	32	25	20	23	18	14	15	11	9	7	5	3	0
8	45	33	25	20	39	29	22	18	21	16	13	13	10	8	6	4	3	0
9	42	30	23	18	37	26	20	15	19	14	11	12	9	7	6	4	2	0
10	39	27	20	15	34	24	18	14	17	13	10	11	8	6	5	3	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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