

REPORT NUMBER: ITL86257

PAGE: 1 OF 6

ISSUE DATE: 01/06/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MD-LED-e72-2

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 2 APERTURES, LENS FROSTED SIDE IN.

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

INPUT ELECTRICAL: 12.0 VOLTS, 2.65 WATTS, 0.340 AMPS

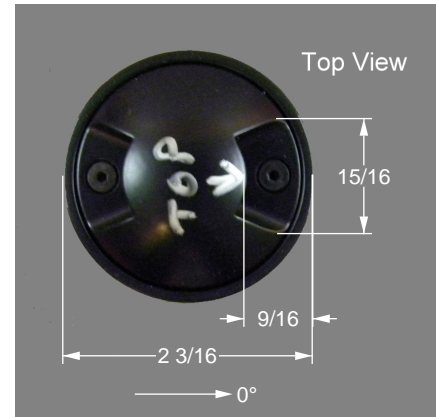
MOUNTING: IN-GRADE

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

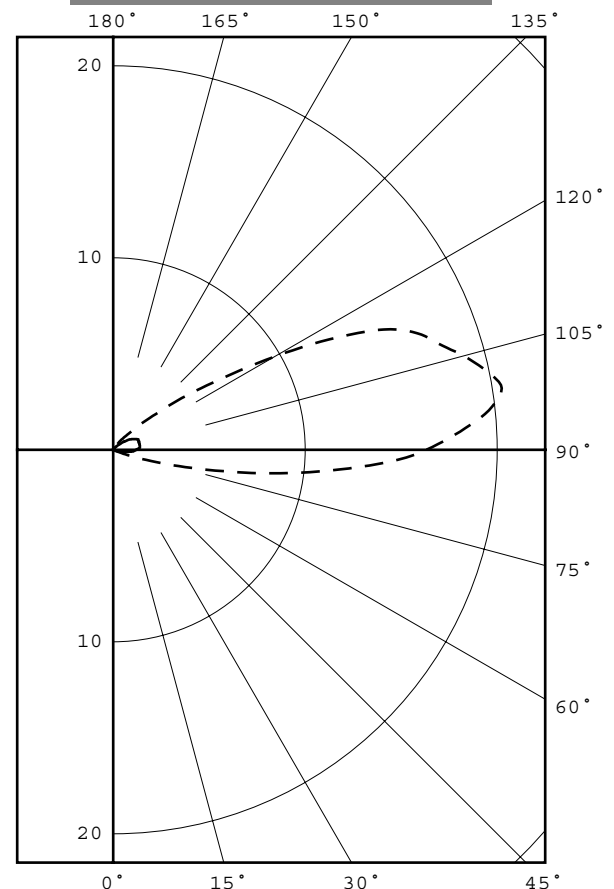
	0.0	25.0	45.0	65.0	90.0	
0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0
65	0.1	0.0	0.0	0.0	0.0	0.1
75	2.9	2.0	0.3	0.0	0.0	1.2
85	11.8	9.1	1.0	0.0	0.0	4.4
90	16.3	12.4	1.2	0.0	0.0	
95	19.2	14.7	1.4	0.1	0.0	7.1
105	18.9	13.8	1.4	0.1	0.0	6.8
115	14.6	10.5	1.3	0.1	0.0	4.9
125	5.6	4.2	0.8	0.1	0.0	1.9
135	1.4	1.0	0.3	0.0	0.0	0.5
145	0.3	0.2	0.1	0.0	0.0	0.1
155	0.1	0.1	0.1	0.0	0.0	0.0
165	0.1	0.1	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	5.7	20.9
90-120	18.8	69.7
90-130	20.8	76.9
90-150	21.3	78.9
90-180	21.4	79.1
0-180	27.0	100.0

EFFICACY = 10.2 lm/W

CIE TYPE - SEMI-INDIRECT

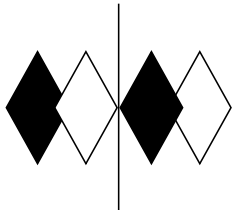


LEGEND:

0-deg -----
45-deg =====
90-deg -----

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
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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
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
5.0	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
10.0	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
15.0	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
20.0	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
25.0	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
30.0	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
35.0	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
40.0	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
45.0	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
50.0	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
55.0	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
60.0	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
65.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5	0.3	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70.0	0.8	0.8	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5	1.6	1.6	1.5	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
75.0	2.9	2.9	2.8	2.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0
77.5	4.6	4.6	4.4	3.4	1.4	0.5	0.1	0.0	0.0	0.0	0.0
80.0	6.8	6.9	6.5	5.1	2.0	0.6	0.1	0.0	0.0	0.0	0.0
82.5	9.3	9.4	8.8	7.1	2.7	0.8	0.2	0.0	0.0	0.0	0.0
85.0	11.8	11.9	11.2	9.1	3.4	1.0	0.2	0.0	0.0	0.0	0.0
87.5	14.4	14.4	13.5	11.0	4.2	1.1	0.3	0.0	0.0	0.0	0.0
90.0	16.3	16.3	15.2	12.4	4.9	1.2	0.3	0.0	0.0	0.0	0.0
92.5	17.8	17.9	16.8	13.6	5.5	1.3	0.4	0.0	0.0	0.0	0.0
95.0	19.2	19.3	18.3	14.7	6.0	1.4	0.4	0.1	0.0	0.0	0.0
97.5	20.2	20.3	19.3	15.3	6.3	1.4	0.4	0.1	0.0	0.0	0.0
100.0	20.4	20.4	19.2	15.2	6.5	1.4	0.4	0.1	0.0	0.0	0.0
102.5	19.7	19.6	18.3	14.5	6.5	1.4	0.4	0.1	0.0	0.0	0.0
105.0	18.9	18.6	17.1	13.8	6.6	1.4	0.4	0.1	0.0	0.0	0.0
107.5	18.0	17.7	16.2	13.2	6.5	1.4	0.4	0.1	0.0	0.0	0.0
110.0	17.3	17.0	15.4	12.6	6.2	1.4	0.4	0.1	0.0	0.0	0.0
112.5	16.3	16.1	14.5	11.7	5.8	1.4	0.4	0.1	0.0	0.0	0.0
115.0	14.6	14.4	13.0	10.5	5.1	1.3	0.4	0.1	0.0	0.0	0.0
117.5	12.2	12.1	11.1	9.0	4.4	1.2	0.4	0.1	0.0	0.0	0.0
120.0	9.7	9.7	9.1	7.3	3.6	1.1	0.4	0.1	0.0	0.0	0.0
122.5	7.4	7.5	6.9	5.6	2.9	1.0	0.3	0.1	0.0	0.0	0.0
125.0	5.6	5.6	5.2	4.2	2.2	0.8	0.3	0.1	0.0	0.0	0.0
127.5	4.2	4.2	3.8	3.0	1.6	0.7	0.3	0.1	0.0	0.0	0.0
130.0	2.9	2.9	2.7	2.1	1.2	0.5	0.2	0.1	0.0	0.0	0.0
132.5	2.1	2.1	1.9	1.5	0.9	0.4	0.2	0.0	0.0	0.0	0.0
135.0	1.4	1.4	1.3	1.0	0.6	0.3	0.1	0.0	0.0	0.0	0.0
137.5	1.0	1.0	0.9	0.7	0.4	0.2	0.1	0.0	0.0	0.0	0.0
140.0	0.7	0.7	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0
142.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0
145.0	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
147.5	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
150.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
152.5	0.1	0.1	0.1	0.1	0.1	0.1	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
157.5	0.1	0.1	0.1	0.1	0.1	0.1	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 6

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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
160.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.1	0.1	0.1	0.1	0.1	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
170.0	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
175.0	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
180.0	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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PAGE: 4 OF 6

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	0.1
70- 75	0.3
75- 80	0.9
80- 85	1.8
85- 90	2.7
90- 95	3.4
95-100	3.8
100-105	3.6
105-110	3.2
110-115	2.8
115-120	2.1
120-125	1.3
125-130	0.7
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	0.1
0- 80	1.2
0- 90	5.7
0-100	12.8
0-110	19.6
0-120	24.5
0-130	26.4
0-140	26.9
0-150	27.0
0-160	27.0
0-170	27.0
0-180	27.0



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PAGE: 5 OF 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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	29	29	29	21
1	85	78	72	66	74	68	63	58	49	45	42	32	29	26	16	14	12	4
2	76	66	58	52	66	58	51	45	41	36	32	26	23	20	12	10	8	1
3	69	58	49	42	60	50	43	37	36	31	26	23	19	16	11	8	6	1
4	63	51	42	35	54	44	37	31	32	26	22	20	16	13	9	7	5	0
5	58	45	36	30	50	39	32	26	28	23	19	18	14	11	9	6	4	0
6	53	40	32	25	46	35	28	22	25	20	16	16	13	10	8	5	4	0
7	49	36	28	22	42	32	24	19	23	18	14	15	11	8	7	5	3	0
8	45	33	25	19	39	28	22	17	21	16	12	13	10	7	7	4	3	0
9	42	30	22	17	37	26	19	15	19	14	11	12	9	6	6	4	2	0
10	39	27	20	15	34	24	17	13	17	13	9	11	8	6	6	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.



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