

# itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

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

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REPORT NUMBER: ITL81832

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ISSUE DATE: 06/02/14

PREPARED FOR: BEST LIGHTING PRODUCTS

CATALOG NUMBER: E-1 V2

LUMINAIRE: MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY CONSISTS OF: ONE CIRCUIT BOARD WITH 1 LED, MOLDED CLEAR PLASTIC LENS WITH CONCENTRIC CIRCULAR EXTERIOR PERIMETER PRISMS AND CLEAR CONICAL OPTIC BELOW LED WITH RECESSED TOP CENTER. ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.

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

TOTAL INPUT WATTS = 0.484 AT 3.6 VOLTS DC

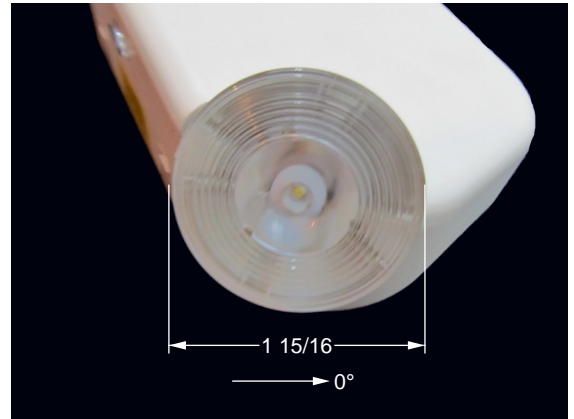
MOUNTING: SURFACE

LED DRIVER: BEST LIGHTING PROPRIETARY

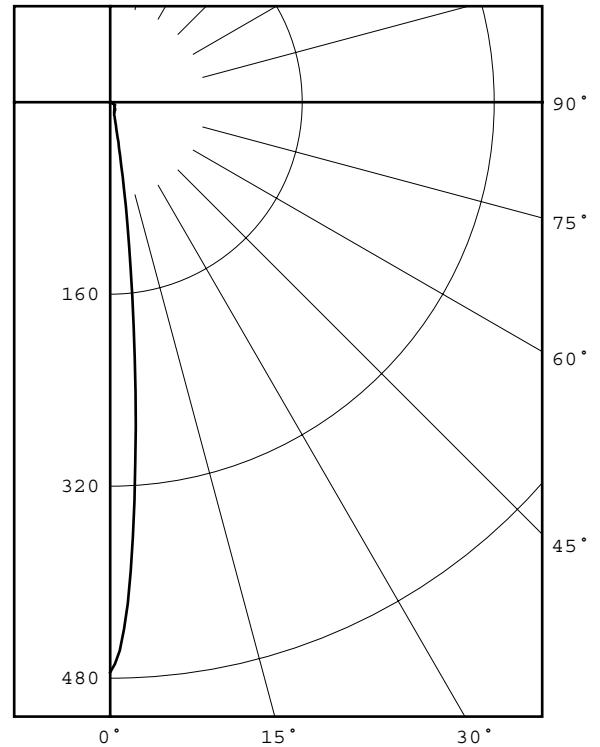
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (3.6VDC) TO THE LED DRIVER. LED DRIVER INFORMATION PROVIDED BY CLIENT. THE SWIVEL HEAD ASSEMBLY WAS SET IN A CLIENT REQUESTED POSITION WHICH IS APPROXIMATELY AIMED 30-DEGREES BELOW THE HORIZON AND CANTED APPROXIMATELY 45-DEGREES FROM STRAIGHT AHEAD WHEN LUMINAIRE IS IN THE VERTICAL AND LEVEL POSITION. FOR THIS TEST THE LUMINAIRE WAS POSITIONED TO PLACE THE LED IN THE VERTICAL BASE-UP POSITION (AIMED TOWARDS NADIR).

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



DEG	CANDELA	LUMENS
0	475	
5	242	16.7
15	16	5.2
25	8	3.9
35	7	4.2
45	5	4.1
55	5	4.4
65	2	2.1
75	1	0.9
85	0	0.0
90	0	
95	0	0.0
105	0	0.0
115	0	0.0
125	0	0.0
135	0	0.0
145	0	0.0
155	0	0.0
165	0	0.0
175	0	0.0
180	0	



ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	25.8	62.1
0- 40	30.1	72.3
0- 60	38.6	92.8
0- 90	41.6	100.0
90-120	0.0	0.0
90-130	0.0	0.0
90-150	0.0	0.0
90-180	0.0	0.0
0-180	41.6	100.0

Checked M. KLOPF  
Approved R. BEATTIE  
Lighting Engineer

EFFICACY = 86.0 lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.18



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CANDELA DISTRIBUTION

0.0	475	95.0	0
0.5	468	97.5	0
1.0	457	100.0	0
1.5	439	102.5	0
2.0	418	105.0	0
2.5	391	107.5	0
3.0	363	110.0	0
3.5	333	112.5	0
4.0	301	115.0	0
4.5	271	117.5	0
5.0	242	120.0	0
5.5	214	122.5	0
6.0	188	125.0	0
6.5	163	127.5	0
7.0	141	130.0	0
7.5	121	132.5	0
8.0	104	135.0	0
8.5	88	137.5	0
9.0	74	140.0	0
9.5	63	142.5	0
10.0	53	145.0	0
11.0	39	147.5	0
11.5	34	150.0	0
12.0	29	152.5	0
12.5	26	155.0	0
13.0	23	157.5	0
13.5	21	160.0	0
14.0	19	162.5	0
14.5	17	165.0	0
15.0	16	167.5	0
16.0	14	170.0	0
17.0	12	172.5	0
18.0	11	175.0	0
19.0	10	177.5	0
20.0	10	180.0	0
22.5	9		
25.0	8		
27.5	8		
30.0	8		
32.5	7		
35.0	7		
37.5	6		
40.0	6		
42.5	6		
45.0	5		
47.5	5		
50.0	5		
52.5	5		
55.0	5		
57.5	5		
60.0	4		
62.5	3		
65.0	2		
67.5	1		
70.0	1		
72.5	1		
75.0	1		
77.5	1		
80.0	0		
82.5	0		
85.0	0		
87.5	0		
90.0	0		
92.5	0		



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5-DEGREE  
 ZONAL LUMEN SUMMARY

0- 5	8.1
5- 10	8.6
10- 15	3.3
15- 20	2.0
20- 25	1.9
25- 30	2.0
30- 35	2.1
35- 40	2.1
40- 45	2.1
45- 50	2.0
50- 55	2.2
55- 60	2.2
60- 65	1.5
65- 70	0.6
70- 75	0.5
75- 80	0.4
80- 85	0.0
85- 90	0.0
90- 95	0.0
95-100	0.0
100-105	0.0
105-110	0.0
110-115	0.0
115-120	0.0
120-125	0.0
125-130	0.0
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	16.7
0- 20	21.9
0- 30	25.8
0- 40	30.1
0- 50	34.2
0- 60	38.6
0- 70	40.7
0- 80	41.6
0- 90	41.6
0-100	41.6
0-110	41.6
0-120	41.6
0-130	41.6
0-140	41.6
0-150	41.6
0-160	41.6
0-170	41.6
0-180	41.6



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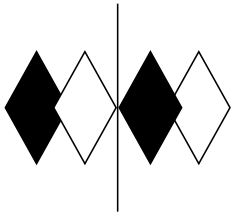
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	94	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	80	79
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	75	74
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	71	70
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	68	66
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	65	63
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	62	61
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	60	59
10	77	68	63	59	76	68	62	59	67	62	59	66	62	59	65	61	59	59	57

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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