

REPORT NUMBER: ITL79255

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ISSUE DATE: 10/15/13

PREPARED FOR: BEGHELLI

CATALOG NUMBER: XMR50

LUMINAIRE: MOLDED WHITE PLASTIC HOUSING, TWO MOLDED WHITE PLASTIC SWIVEL HEAD ASSEMBLIES, EACH HEAD ASSEMBLY WITH ONE MR-16 STYLE BI-PIN BASE LED LAMP. EACH LAMP CONSISTS OF: CAST SPECULAR METAL BODY, MOLDED WHITE PLASTIC TOP, ONE WHITE CIRCUIT BOARD WITH 3 LEDs, FROSTED FLAT PLASTIC LENS WITH ONE CLEAR CONICAL OPTIC BELOW EACH LED WITH RECESSED SEMI-HEMISPHERICAL TOP CENTER. MOLDED WHITE PLASTIC LAMP RETAINING RING. ONLY ONE HEAD ASSEMBLY ENERGIZED FOR THIS TEST.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 3.42 AT 6.0 VOLTS DC

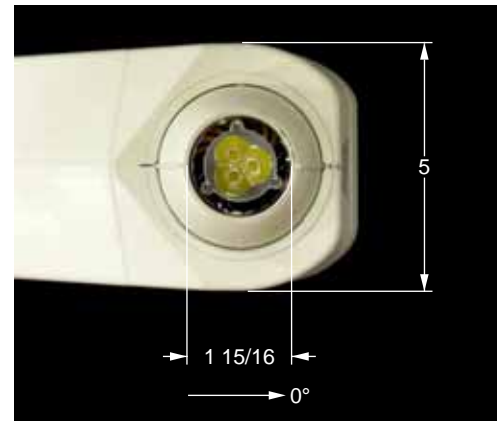
MOUNTING: SURFACE

LED DRIVER: BEGHELLI PROPRIETARY

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (6.0VDC) TO THE LED DRIVER. LED DRIVER INFORMATION PROVIDED BY CLIENT. THE SWIVEL HEAD ASSEMBLY WAS SET IN A CLIENT REQUESTED POSITION WHICH IS CANTED APPROXIMATELY 23-DEGREES FROM STRAIGHT AHEAD WHEN LUMINAIRE IS IN THE VERTICAL AND LEVEL POSITION. FOR THIS TEST THE LUMINAIRE WAS POSITIONED TO PLACE THE LEDs IN THE VERTICAL BASE-UP POSITION (AIMED TOWARDS NADIR).

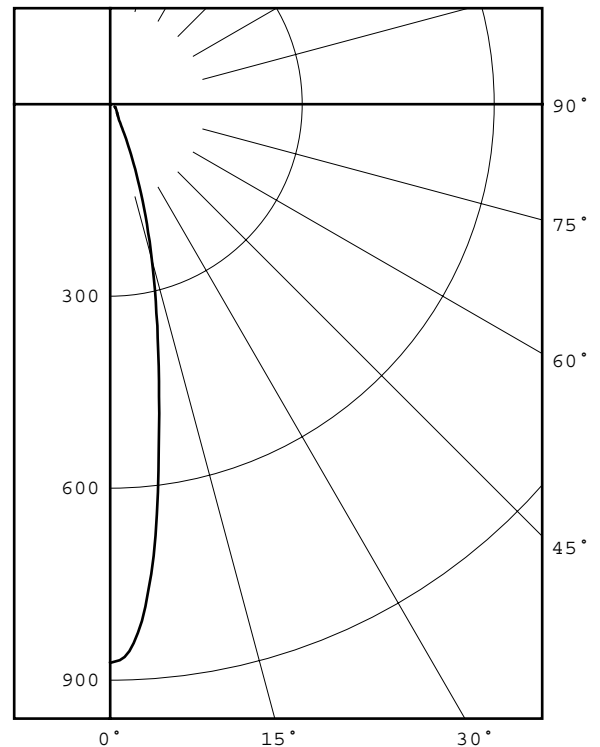
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



DEG	CANDELA	LUMENS
0	873	
5	737	60
15	251	69
25	55	28
35	20	13
45	14	11
55	11	10
65	6	6
75	3	3
85	1	1
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	157	78.3
0- 40	170	84.7
0- 60	191	94.9
0- 90	201	100.0
90-180	0	0.0
0-180	201	100.0



Checked M KLOPF
Approved R BEATTIE
Lighting Engineer

EFFICACY = 58.8 lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.34



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CANDELA DISTRIBUTION

0.0	873	80.0	1
0.5	871	82.5	1
1.0	869	85.0	1
1.5	864	87.5	0
2.0	855	90.0	0
2.5	843		
3.0	827		
3.5	809		
4.0	787		
4.5	762		
5.0	737		
5.5	709		
6.0	678		
6.5	645		
7.0	611		
7.5	578		
8.0	545		
8.5	516		
9.0	489		
9.5	463		
10.0	439		
10.5	416		
11.0	394		
11.5	373		
12.0	354		
12.5	334		
13.0	316		
13.5	299		
14.0	282		
14.5	266		
15.0	251		
15.5	237		
16.0	223		
16.5	209		
17.0	196		
17.5	184		
18.0	171		
18.5	160		
19.0	148		
19.5	137		
20.0	127		
22.5	85		
25.0	55		
27.5	36		
30.0	27		
32.5	23		
35.0	20		
37.5	18		
40.0	16		
42.5	15		
45.0	14		
47.5	13		
50.0	13		
52.5	12		
55.0	11		
57.5	10		
60.0	8		
62.5	7		
65.0	6		
67.5	6		
70.0	5		
72.5	4		
75.0	3		
77.5	2		



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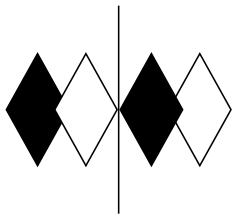
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	19
5- 10	40
10- 15	39
15- 20	30
20- 25	18
25- 30	10
30- 35	7
35- 40	6
40- 45	6
45- 50	5
50- 55	5
55- 60	5
60- 65	3
65- 70	3
70- 75	2
75- 80	1
80- 85	1
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	60
0- 20	129
0- 30	157
0- 40	170
0- 50	181
0- 60	191
0- 70	197
0- 80	200
0- 90	201



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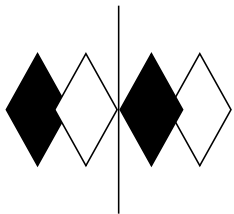
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79
5	95	88	82	79	94	87	82	78	85	81	78	83	80	77	82	79	76	75
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62

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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