

REPORT NUMBER: ITL77082

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ISSUE DATE: 04/26/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR3-HO-K35-4-XX-LOH-120

LUMINAIRE: EXTRUDED 3-PIECE METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS, EXTRUDED CLEAR PLASTIC DIFFUSER WITH WHITE SIDES AND HOLOGRAPHIC PLASTIC OVERLAY.

LAMPS: ONE HUNDRED FORTY-FOUR WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 39.5 AT 120.0 VOLTS

MOUNTING: RECESSED

LED DRIVER: OSRAM OT80W/4X500C/UNV/DIM

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

CANDELA DISTRIBUTION

CANDELA DISTRIBUTION						FLUX
0.0	22.5	45.0	67.5	90.0		
0	1629	1629	1629	1629	1629	153
5	1624	1609	1620	1618	1610	417
15	1539	1511	1491	1459	1442	558
25	1314	1270	1213	1160	1137	554
35	972	929	875	837	819	492
45	695	668	629	599	583	423
55	524	506	472	440	424	318
65	363	352	320	293	285	167
75	176	169	153	144	141	35
85	25	27	28	28	27	
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	1128	36.2
0- 40	1682	54.0
0- 60	2597	83.3
0- 90	3117	100.0
90-180	0	0.0
0-180	3117	100.0

EFFICACY = 78.9 lm/W

CIE TYPE - DIRECT

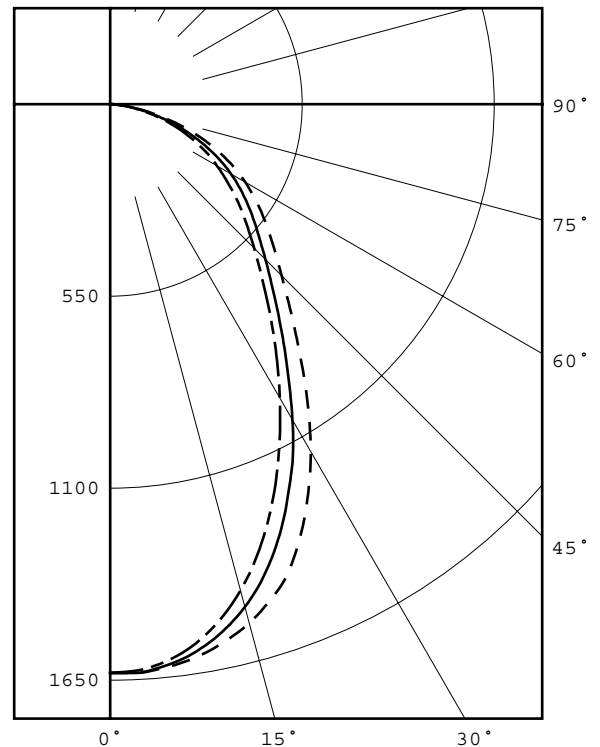
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.09 0.96

LUMINOUS LENGTH : 46.875 2.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	11305.	10231.	9483.
55	10507.	9465.	8502.
65	9879.	8709.	7756.
75	7821.	6799.	6266.
85	3299.	3695.	3563.



LEGEND:  
0-deg -----  
45-deg =====  
90-deg -----

Checked           M KLOPF          

Approved           R BEATTIE            
Lighting Engineer



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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1629	1629	1629	1629	1629
2.5	1631	1617	1631	1632	1625
5.0	1624	1609	1620	1618	1610
7.5	1612	1595	1602	1594	1585
10.0	1594	1574	1574	1559	1548
12.5	1569	1546	1537	1514	1500
15.0	1539	1511	1491	1459	1442
17.5	1499	1465	1435	1395	1375
20.0	1454	1411	1368	1323	1300
22.5	1389	1355	1294	1243	1220
25.0	1314	1270	1213	1160	1137
27.5	1233	1187	1134	1077	1053
30.0	1149	1100	1044	993	972
32.5	1060	1013	955	912	893
35.0	972	929	875	837	819
37.5	889	850	802	766	750
40.0	816	781	737	703	687
42.5	751	720	679	648	632
45.0	695	668	629	599	583
47.5	646	622	584	556	539
50.0	602	580	545	515	500
52.5	562	541	508	477	462
55.0	524	506	472	440	424
57.5	485	468	436	403	388
60.0	447	431	400	366	353
62.5	406	393	361	330	321
65.0	363	352	320	293	285
67.5	318	309	279	256	249
70.0	272	263	237	219	213
72.5	224	216	195	181	177
75.0	176	169	153	144	141
77.5	130	125	115	110	108
80.0	89	85	81	79	77
82.5	52	52	51	51	50
85.0	25	27	28	28	27
87.5	9	11	11	10	10
90.0	0	0	0	0	0



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	39
5- 10	114
10- 15	181
15- 20	236
20- 25	271
25- 30	287
30- 35	284
35- 40	270
40- 45	254
45- 50	238
50- 55	222
55- 60	201
60- 65	176
65- 70	143
70- 75	104
75- 80	63
80- 85	29
85- 90	7

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	153
0- 20	570
0- 30	1128
0- 40	1682
0- 50	2174
0- 60	2597
0- 70	2915
0- 80	3082
0- 90	3117



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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	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	88	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	75	73	73
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	65	63	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	57	55	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	49	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	43	43
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	41	39	39
8	64	51	43	38	63	51	43	38	49	43	38	48	42	37	47	41	37	37	35	35
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	34	32	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	30	30

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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