

REPORT NUMBER: ITL77893

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ISSUE DATE: 07/12/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: EXTRUDED 3-PIECE METAL HOUSING WITH 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 = 24.3 AT 120.0 VOLTS

MOUNTING: RECESSED

LED DRIVER: OSRAM OT100W/4X600C/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

	0.0	22.5	45.0	67.5	90.0	
0	1049	1049	1049	1049	1049	
5	1045	1035	1041	1041	1037	
15	988	970	957	938	930	98
25	837	811	777	744	732	268
35	609	585	555	530	520	357
45	439	423	398	378	367	351
55	335	324	303	282	273	311
65	234	227	208	190	183	271
75	113	107	95	87	84	205
85	15	16	15	14	14	103
90	0	0	0	0	0	20

FLUX

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	723	36.4
0- 40	1074	54.1
0- 60	1656	83.5
0- 90	1984	100.0
90-180	0	0.0
0-180	1984	100.0

EFFICACY = 81.6 lm/W

CIE TYPE - DIRECT

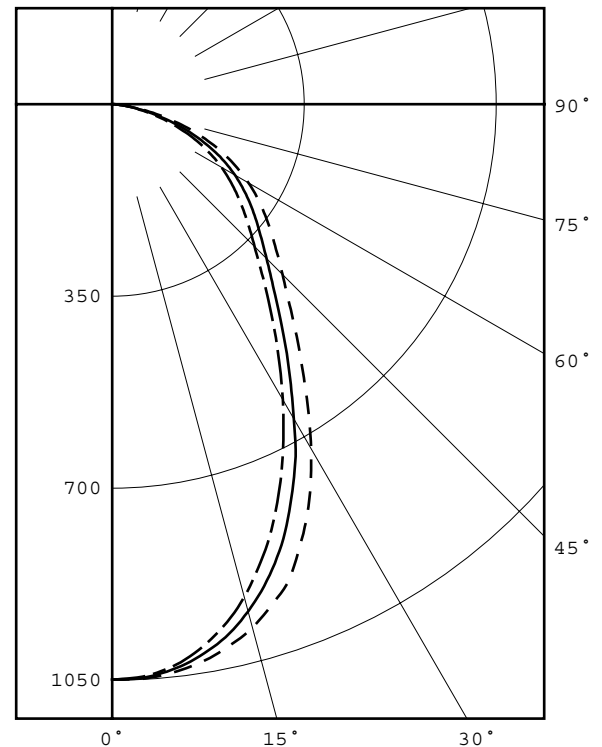
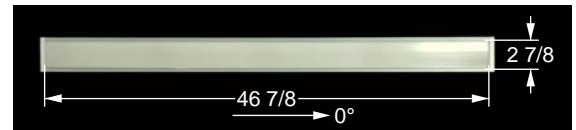
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.07 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	7141.	6474.	5969.
55	6717.	6076.	5474.
65	6368.	5661.	4980.
75	5022.	4222.	3733.
85	1979.	1979.	1848.



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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1049	1049	1049	1049	1049
2.5	1049	1040	1048	1049	1046
5.0	1045	1035	1041	1041	1037
7.5	1037	1025	1029	1025	1021
10.0	1025	1012	1011	1003	997
12.5	1008	994	988	974	967
15.0	988	970	957	938	930
17.5	960	941	921	896	886
20.0	931	904	879	849	839
22.5	885	864	831	799	786
25.0	837	811	777	744	732
27.5	783	756	724	688	676
30.0	725	698	662	632	622
32.5	666	641	606	579	569
35.0	609	585	555	530	520
37.5	559	536	507	484	474
40.0	513	493	465	443	434
42.5	473	455	429	408	398
45.0	439	423	398	378	367
47.5	410	395	371	350	341
50.0	383	370	347	327	317
52.5	359	347	325	304	295
55.0	335	324	303	282	273
57.5	312	301	281	261	252
60.0	287	278	258	238	230
62.5	261	253	234	215	207
65.0	234	227	208	190	183
67.5	205	198	180	165	159
70.0	175	169	152	138	133
72.5	144	138	123	112	108
75.0	113	107	95	87	84
77.5	82	77	69	63	61
80.0	54	52	46	43	43
82.5	32	31	29	27	27
85.0	15	16	15	14	14
87.5	5	6	5	5	5
90.0	0	0	0	0	0



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	25
5- 10	73
10- 15	117
15- 20	151
20- 25	174
25- 30	183
30- 35	180
35- 40	171
40- 45	160
45- 50	151
50- 55	142
55- 60	130
60- 65	114
65- 70	92
70- 75	65
75- 80	38
80- 85	16
85- 90	3

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	98
0- 20	366
0- 30	723
0- 40	1074
0- 50	1385
0- 60	1656
0- 70	1861
0- 80	1965
0- 90	1984



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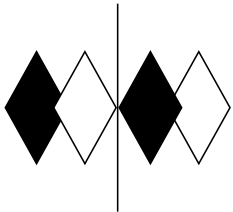
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	116	116	116	116	111	111	111	111	111	111	106	106	106	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73	73
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	43
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35	35
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32	32
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	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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NVLAP LAB CODE: 200925-0

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