

REPORT NUMBER: ITL76174

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ISSUE DATE: 02/22/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-2-4-X-PB-120-T8

LUMINAIRE: EXTRUDED 3-PIECE METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR AND SOCKET MOUNTING BRACKETS, FABRICATED SEMI-SPECULAR METAL PARABOLIC 31-CELL LOUVER.

LAMPS: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.

BALLAST: UNIVERSAL B232IUNV-C

MOUNTING: RECESSED

TOTAL REFLECTANCE OF PAINT = 88.9 %

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

TOTAL INPUT WATTS = 51.1 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED = 9.17

REPORT IS BASED ON 2950 LUMENS PER LAMP.

CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1654	1654	1654	1654	1654	
5	1641	1647	1651	1650	1650	157
15	1542	1563	1602	1640	1655	451
25	1399	1433	1477	1498	1513	675
35	1210	1249	1238	1270	1305	780
45	954	971	921	849	844	703
55	609	591	501	448	450	461
65	144	146	162	177	190	174
75	21	22	25	33	33	33
85	2	3	3	4	4	4
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1283	21.7	37.3
0- 40	2063	35.0	60.0
0- 60	3227	54.7	93.9
0- 90	3438	58.3	100.0
90-180	0	0.0	0.0
0-180	3438	58.3	100.0

TOTAL LUMINAIRE EFFICIENCY = 58.3 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.18 1.27

SHIELDING ANGLES : 30 36

LUMINOUS LENGTH : 46.625 4.375

LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE AVERAGE AVERAGE

IN DEG 0-DEG 45-DEG 90-DEG

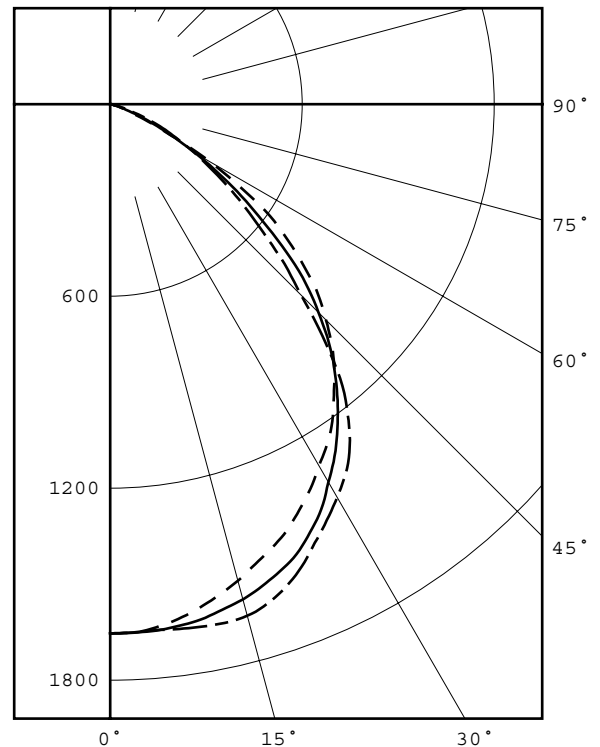
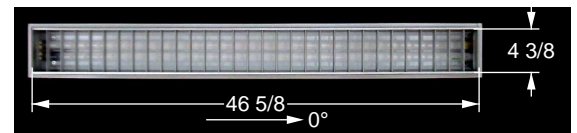
45 10252. 9897. 9070.

55 8068. 6637. 5962.

65 2589. 2913. 3416.

75 617. 734. 969.

85 174. 262. 349.



LEGEND:

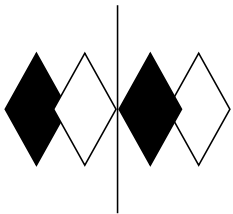
0-deg -----

45-deg =====

90-deg -----

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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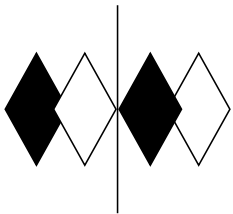
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1654	1654	1654	1654	1654
2.5	1653	1654	1653	1651	1652
5.0	1641	1647	1651	1650	1650
7.5	1623	1632	1644	1651	1654
10.0	1599	1613	1635	1649	1658
12.5	1571	1589	1618	1647	1660
15.0	1542	1563	1602	1640	1655
17.5	1507	1536	1579	1623	1636
20.0	1476	1504	1553	1592	1605
22.5	1442	1473	1522	1549	1564
25.0	1399	1433	1477	1498	1513
27.5	1355	1391	1428	1438	1466
30.0	1305	1350	1364	1389	1419
32.5	1261	1299	1305	1328	1369
35.0	1210	1249	1238	1270	1305
37.5	1148	1194	1167	1196	1219
40.0	1090	1125	1092	1104	1117
42.5	1026	1054	1012	994	982
45.0	954	971	921	849	844
47.5	882	888	829	736	739
50.0	793	798	719	635	625
52.5	703	694	602	534	535
55.0	609	591	501	448	450
57.5	481	484	401	370	372
60.0	363	361	313	296	304
62.5	230	253	228	235	241
65.0	144	146	162	177	190
67.5	84	89	107	128	141
70.0	50	55	63	88	93
72.5	32	33	38	55	56
75.0	21	22	25	33	33
77.5	13	15	16	20	20
80.0	9	9	10	12	12
82.5	5	6	6	8	8
85.0	2	3	3	4	4
87.5	1	1	1	1	0
90.0	0	0	0	0	0



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5-DEGREE

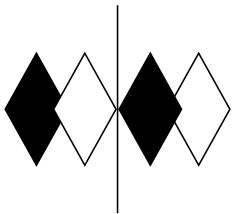
ZONAL LUMEN SUMMARY

0- 5	39
5- 10	117
10- 15	192
15- 20	260
20- 25	316
25- 30	358
30- 35	386
35- 40	394
40- 45	374
45- 50	329
50- 55	267
55- 60	194
60- 65	117
65- 70	57
70- 75	24
75- 80	9
80- 85	4
85- 90	1

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	157
0- 20	608
0- 30	1283
0- 40	2063
0- 50	2766
0- 60	3227
0- 70	3401
0- 80	3434
0- 90	3438



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58
1	65	63	61	59	63	61	60	58	59	58	56	57	56	55	55	54	53	52
2	60	56	53	50	59	55	52	50	53	51	49	51	49	48	50	48	47	46
3	56	51	47	44	54	50	46	43	48	45	42	47	44	42	45	43	41	40
4	52	46	41	38	50	45	41	38	43	40	37	42	39	37	41	38	36	35
5	48	41	37	33	47	41	36	33	39	36	33	38	35	33	37	34	32	31
6	44	38	33	30	43	37	33	29	36	32	29	35	32	29	34	31	29	28
7	41	34	30	26	40	34	29	26	33	29	26	32	29	26	31	28	26	25
8	39	31	27	24	38	31	27	24	30	26	24	30	26	24	29	26	23	22
9	36	29	25	22	35	29	24	22	28	24	21	27	24	21	27	24	21	20
10	34	27	23	20	33	27	22	20	26	22	20	25	22	20	25	22	19	19

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.