

REPORT NUMBER: ITL76173

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ISSUE DATE: 02/21/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-2-4-X-LP-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, EXTRUDED CLEAR MICRO-LINEAR PRISMATIC ACRYLIC LENS. LENS PRISMS DOWN AND PARALLEL WITH LAMPS.

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 = 50.4 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	1821	1821	1821	1821	1821	
5	1812	1810	1796	1780	1774	170
15	1727	1705	1653	1601	1581	464
25	1547	1497	1371	1279	1228	634
35	1269	1175	1000	869	815	636
45	904	805	616	483	443	504
55	582	509	335	324	355	374
65	333	276	268	397	438	329
75	155	140	266	390	426	281
85	30	64	132	154	152	118
90	0	0	0	0	0	

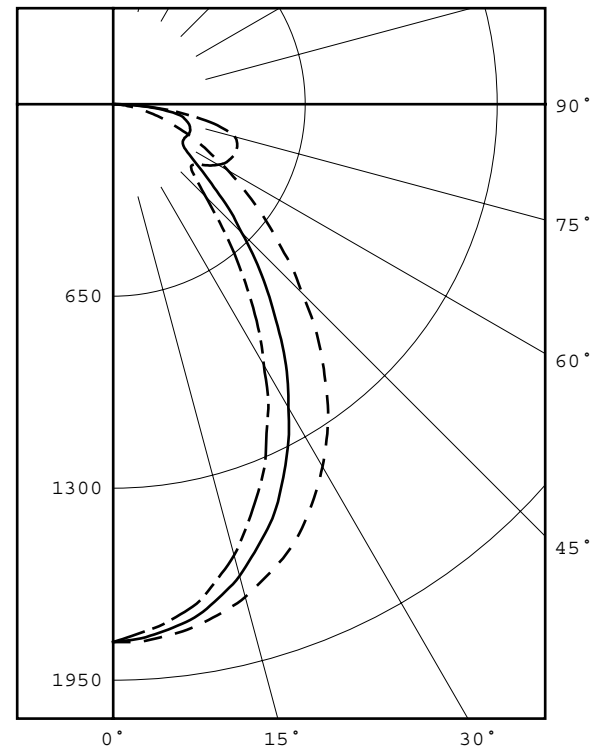
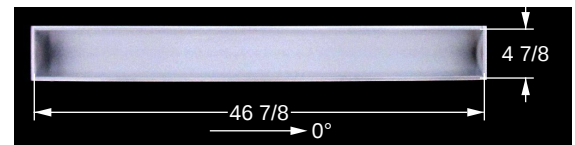
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1267	21.5	36.1
0- 40	1902	32.2	54.2
0- 60	2780	47.1	79.3
0- 90	3508	59.5	100.0
90-180	0	0.0	0.0
0-180	3508	59.5	100.0

TOTAL LUMINAIRE EFFICIENCY = 59.5 %

CIE TYPE - DIRECT

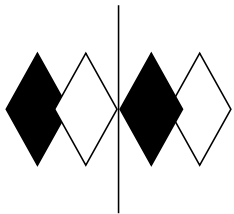
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.16 0.94
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 46.875 4.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	8672.	5909.	4249.	
55	6883.	3962.	4198.	
65	5345.	4301.	7030.	
75	4062.	6971.	11164.	
85	2335.	10273.	11829.	



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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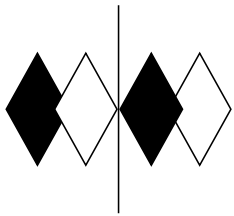
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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1821	1821	1821	1821	1821
2.5	1822	1821	1813	1798	1796
5.0	1812	1810	1796	1780	1774
7.5	1800	1792	1775	1750	1742
10.0	1780	1771	1745	1713	1704
12.5	1756	1739	1701	1659	1643
15.0	1727	1705	1653	1601	1581
17.5	1688	1664	1591	1531	1500
20.0	1649	1609	1529	1446	1418
22.5	1604	1558	1457	1364	1336
25.0	1547	1497	1371	1279	1228
27.5	1484	1421	1285	1176	1137
30.0	1417	1347	1187	1079	1020
32.5	1345	1258	1098	966	922
35.0	1269	1175	1000	869	815
37.5	1179	1086	895	770	711
40.0	1094	991	804	665	614
42.5	1004	902	711	574	521
45.0	904	805	616	483	443
47.5	824	728	541	416	386
50.0	732	652	457	363	347
52.5	656	572	390	329	338
55.0	582	509	335	324	355
57.5	511	449	294	339	386
60.0	448	385	273	364	410
62.5	385	331	267	383	429
65.0	333	276	268	397	438
67.5	285	226	273	403	445
70.0	234	187	276	405	445
72.5	195	159	273	400	440
75.0	155	140	266	390	426
77.5	117	121	253	360	383
80.0	87	105	236	311	318
82.5	54	86	193	238	235
85.0	30	64	132	154	152
87.5	11	32	58	74	72
90.0	0	0	0	0	0



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5-DEGREE

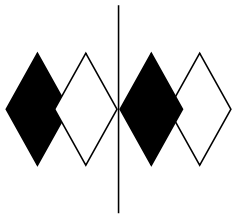
ZONAL LUMEN SUMMARY

0- 5	43
5- 10	127
10- 15	201
15- 20	262
20- 25	306
25- 30	328
30- 35	328
35- 40	308
40- 45	272
45- 50	231
50- 55	196
55- 60	178
60- 65	169
65- 70	160
70- 75	150
75- 80	131
80- 85	89
85- 90	29

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	170
0- 20	633
0- 30	1267
0- 40	1902
0- 50	2406
0- 60	2780
0- 70	3109
0- 80	3390
0- 90	3508



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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	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	65	62	59	57	63	60	58	56	58	56	54	56	54	53	53	52	51	50
2	59	54	50	47	58	53	50	47	51	48	45	49	47	44	47	45	43	42
3	54	48	44	40	53	47	43	40	46	42	39	44	41	38	43	40	38	36
4	50	43	38	35	49	43	38	34	41	37	34	40	36	33	39	36	33	32
5	47	39	34	31	45	39	34	30	37	33	30	36	33	30	35	32	29	28
6	43	36	31	27	42	35	31	27	34	30	27	33	30	27	32	29	26	25
7	41	33	28	24	40	32	28	24	32	27	24	31	27	24	30	26	24	23
8	38	30	26	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21
9	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19
10	34	26	22	19	33	26	22	19	25	21	19	25	21	18	24	21	18	17

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.