

REPORT NUMBER: ITL77264

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ISSUE DATE: 05/23/13

REVISED: 06/18/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLP5-D2-4-LP-120-T8

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED FLAT 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

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

TOTAL REFLECTANCE OF PAINT = 89.3 %

MOUNTING: SURFACE/SUSPENDED

TOTAL INPUT WATTS = 49.9 AT 120.0 VOLTS

REPORT IS BASED ON 2950 LUMENS PER LAMP.

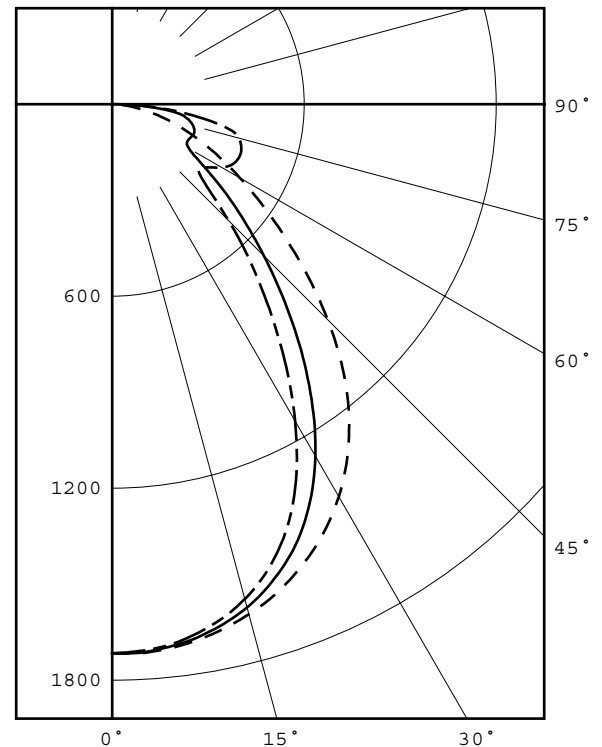
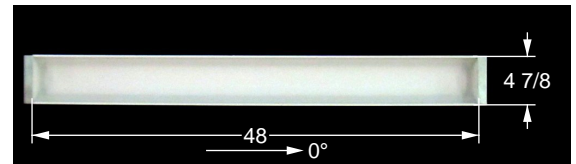
CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1716	1716	1716	1716	1716	
5	1713	1698	1709	1710	1704	162
15	1650	1631	1628	1614	1601	457
25	1516	1477	1430	1375	1347	654
35	1288	1205	1073	960	917	676
45	952	835	671	555	514	541
55	600	522	366	323	343	386
65	346	292	263	386	426	328
75	167	145	262	375	410	279
85	37	69	142	162	161	124
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1273	21.6	35.3
0- 40	1949	33.0	54.0
0- 60	2875	48.7	79.7
0- 90	3607	61.1	100.0
90-180	0	0.0	0.0
0-180	3607	61.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 61.1 %

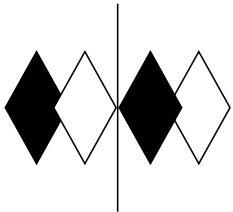
CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.22 1.05
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 48.000 4.875

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	8918.	6286.	4815.
55	6929.	4227.	3961.
65	5423.	4122.	6677.
75	4274.	6705.	10493.
85	2812.	10792.	12236.



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

Checked B. HYRE
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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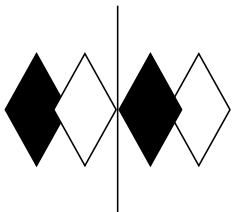
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1716	1716	1716	1716	1716
2.5	1718	1704	1717	1718	1712
5.0	1713	1698	1709	1710	1704
7.5	1704	1689	1698	1695	1689
10.0	1690	1673	1680	1674	1666
12.5	1672	1655	1657	1647	1638
15.0	1650	1631	1628	1614	1601
17.5	1625	1600	1591	1569	1555
20.0	1593	1565	1546	1517	1498
22.5	1557	1524	1494	1452	1430
25.0	1516	1477	1430	1375	1347
27.5	1469	1421	1355	1283	1250
30.0	1416	1358	1270	1181	1143
32.5	1356	1286	1175	1071	1031
35.0	1288	1205	1073	960	917
37.5	1215	1118	970	850	807
40.0	1133	1024	865	745	703
42.5	1045	928	765	648	608
45.0	952	835	671	555	514
47.5	858	748	584	468	432
50.0	766	666	506	395	371
52.5	679	592	433	345	341
55.0	600	522	366	323	343
57.5	527	458	312	328	368
60.0	461	397	277	349	395
62.5	402	343	263	370	415
65.0	346	292	263	386	426
67.5	295	242	267	392	430
70.0	250	198	271	392	429
72.5	207	167	269	386	422
75.0	167	145	262	375	410
77.5	130	127	250	357	382
80.0	96	109	233	310	319
82.5	65	90	202	240	242
85.0	37	69	142	162	161
87.5	14	40	71	82	81
90.0	0	0	0	0	0



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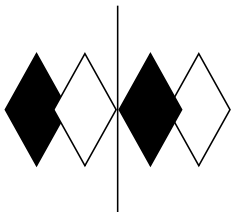
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	41
5- 10	121
10- 15	196
15- 20	261
20- 25	312
25- 30	342
30- 35	347
35- 40	329
40- 45	293
45- 50	248
50- 55	206
55- 60	180
60- 65	169
65- 70	160
70- 75	148
75- 80	131
80- 85	92
85- 90	33

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	162
0- 20	619
0- 30	1273
0- 40	1949
0- 50	2489
0- 60	2875
0- 70	3203
0- 80	3483
0- 90	3607



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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	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	62	61
1	66	63	61	58	65	62	60	58	59	58	56	57	55	54	55	54	52	52	51
2	61	56	52	48	59	55	51	48	53	49	47	51	48	46	49	47	45	45	43
3	56	50	45	41	54	49	44	41	47	43	40	45	42	39	44	41	39	39	37
4	52	45	39	36	50	44	39	35	42	38	35	41	37	34	40	36	34	34	33
5	48	40	35	31	47	40	35	31	38	34	31	37	33	30	36	33	30	30	29
6	45	37	32	28	43	36	31	28	35	31	27	34	30	27	33	30	27	27	26
7	42	34	29	25	40	33	28	25	32	28	25	31	27	25	31	27	24	24	23
8	39	31	26	23	38	31	26	23	30	25	22	29	25	22	28	25	22	22	21
9	36	29	24	21	36	28	24	21	28	23	20	27	23	20	26	23	20	20	19
10	34	27	22	19	34	26	22	19	26	22	19	25	21	19	25	21	19	19	18

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.