

REPORT NUMBER: ITL76172

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ISSUE DATE: 02/21/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-2-4-X-FC-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 FROSTED ACRYLIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.

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 = 50.3 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	1585	1585	1585	1585	1585	
5	1579	1581	1574	1563	1562	149
15	1501	1498	1489	1476	1470	419
25	1348	1349	1327	1306	1290	609
35	1137	1134	1100	1066	1047	685
45	886	876	831	792	774	644
55	633	623	585	544	531	522
65	394	387	359	333	322	358
75	202	198	181	173	166	195
85	53	51	50	48	46	57
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1177	19.9	32.3
0- 40	1862	31.6	51.2
0- 60	3028	51.3	83.2
0- 90	3638	61.7	100.0
90-180	0	0.0	0.0
0-180	3638	61.7	100.0

TOTAL LUMINAIRE EFFICIENCY = 61.7 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.18 1.12

SHIELDING ANGLES : 90 90

LUMINOUS LENGTH : 46.875 4.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE AVERAGE AVERAGE

IN DEG 0-DEG 45-DEG 90-DEG

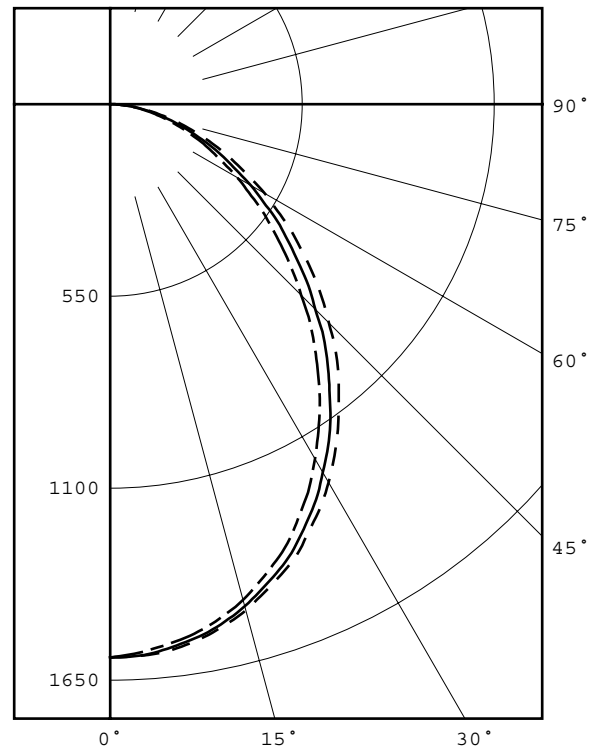
45 8499. 7971. 7425.

55 7486. 6918. 6279.

65 6324. 5762. 5168.

75 5294. 4744. 4350.

85 4125. 3891. 3580.



LEGEND:

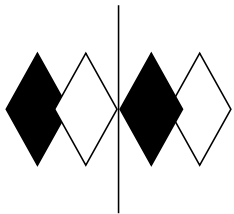
0-deg

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.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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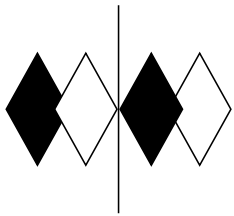
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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1585	1585	1585	1585	1585
2.5	1583	1583	1583	1572	1576
5.0	1579	1581	1574	1563	1562
7.5	1567	1566	1559	1549	1547
10.0	1550	1549	1542	1530	1527
12.5	1527	1525	1518	1503	1501
15.0	1501	1498	1489	1476	1470
17.5	1467	1469	1454	1440	1431
20.0	1433	1432	1418	1399	1391
22.5	1397	1392	1377	1354	1346
25.0	1348	1349	1327	1306	1290
27.5	1303	1297	1277	1247	1236
30.0	1251	1249	1218	1191	1173
32.5	1195	1188	1162	1125	1110
35.0	1137	1134	1100	1066	1047
37.5	1075	1073	1032	1000	979
40.0	1017	1008	969	929	912
42.5	956	944	905	864	847
45.0	886	876	831	792	774
47.5	824	811	771	728	710
50.0	760	752	703	669	646
52.5	694	685	641	603	585
55.0	633	623	585	544	531
57.5	568	563	520	491	471
60.0	512	501	466	433	421
62.5	448	444	406	384	368
65.0	394	387	359	333	322
67.5	343	338	311	291	282
70.0	293	288	262	250	239
72.5	244	240	220	208	202
75.0	202	198	181	173	166
77.5	157	155	145	136	132
80.0	119	118	111	105	102
82.5	83	86	78	76	72
85.0	53	51	50	48	46
87.5	24	24	24	25	23
90.0	0	0	0	0	0



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5-DEGREE

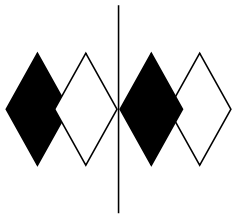
ZONAL LUMEN SUMMARY

0- 5	38
5- 10	111
10- 15	179
15- 20	239
20- 25	288
25- 30	322
30- 35	341
35- 40	344
40- 45	334
45- 50	311
50- 55	280
55- 60	242
60- 65	200
65- 70	158
70- 75	117
75- 80	78
80- 85	43
85- 90	13

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	149
0- 20	568
0- 30	1177
0- 40	1862
0- 50	2506
0- 60	3028
0- 70	3386
0- 80	3582
0- 90	3638



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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	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	68	65	62	60	66	63	61	59	61	59	57	58	57	56	56	55	54	53
2	62	57	53	50	60	56	52	49	54	51	48	52	49	47	50	48	46	45
3	57	51	46	42	55	50	45	42	48	44	41	46	43	40	45	42	40	38
4	52	45	40	36	51	44	40	36	43	39	35	41	38	35	40	37	34	33
5	48	41	35	31	47	40	35	31	39	34	31	37	34	31	36	33	30	29
6	45	37	31	28	44	36	31	28	35	31	27	34	30	27	33	30	27	26
7	42	34	28	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23
8	39	31	26	22	38	30	25	22	29	25	22	29	25	22	28	24	22	21
9	36	28	23	20	35	28	23	20	27	23	20	27	23	20	26	22	20	19
10	34	26	21	18	33	26	21	18	25	21	18	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.