

REPORT NUMBER: ITL76176

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ISSUE DATE: 02/22/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-2-4-X-TWA-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 TRANSLUCENT WHITE 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 = 50.2 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	1185	1185	1185	1185	1185	
5	1180	1181	1177	1170	1168	112
15	1131	1133	1131	1124	1123	318
25	1039	1044	1039	1034	1030	478
35	915	917	911	904	899	568
45	759	760	753	744	743	580
55	585	586	581	574	569	517
65	396	398	393	391	389	390
75	214	215	216	216	216	227
85	56	57	59	60	59	67
90	0	0	0	0	0	

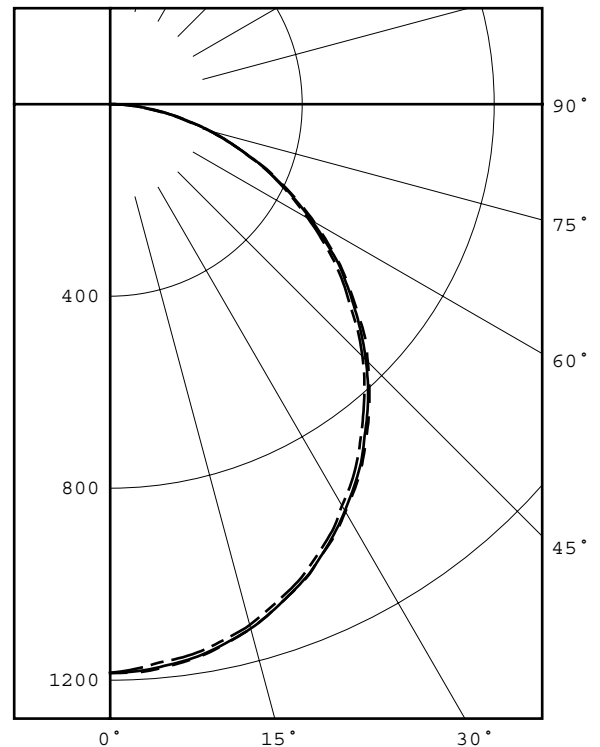
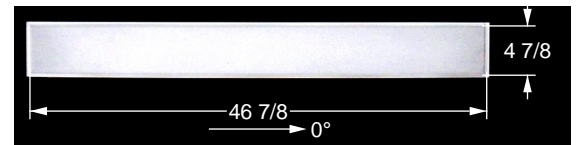
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	908	15.4	27.9
0- 40	1476	25.0	45.3
0- 60	2573	43.6	79.0
0- 90	3257	55.2	100.0
90-180	0	0.0	0.0
0-180	3257	55.2	100.0

TOTAL LUMINAIRE EFFICIENCY = 55.2 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.23 1.22
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	7281.	7223.	7127.
55	6918.	6871.	6729.
65	6356.	6308.	6243.
75	5608.	5661.	5661.
85	4358.	4592.	4592.



LEGEND:
0-deg -----
45-deg _____
90-deg - . - . - .

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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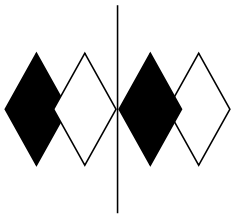
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1185	1185	1185	1185	1185
2.5	1185	1185	1183	1179	1178
5.0	1180	1181	1177	1170	1168
7.5	1172	1173	1170	1162	1162
10.0	1162	1162	1160	1152	1152
12.5	1147	1148	1146	1138	1138
15.0	1131	1133	1131	1124	1123
17.5	1111	1114	1111	1105	1102
20.0	1089	1092	1089	1083	1081
22.5	1068	1069	1067	1060	1058
25.0	1039	1044	1039	1034	1030
27.5	1013	1014	1010	1003	1002
30.0	980	985	978	973	966
32.5	949	950	945	938	935
35.0	915	917	911	904	899
37.5	876	880	871	867	860
40.0	839	840	834	826	822
42.5	799	802	795	787	784
45.0	759	760	753	744	743
47.5	720	720	710	704	700
50.0	672	677	666	662	653
52.5	628	630	623	616	612
55.0	585	586	581	574	569
57.5	537	542	531	528	522
60.0	491	492	485	478	476
62.5	444	448	438	438	432
65.0	396	398	393	391	389
67.5	352	353	348	348	347
70.0	300	307	301	304	298
72.5	256	258	256	257	258
75.0	214	215	216	216	216
77.5	166	171	171	173	172
80.0	129	131	132	133	134
82.5	88	93	93	97	95
85.0	56	57	59	60	59
87.5	27	27	29	28	28
90.0	0	0	0	0	0



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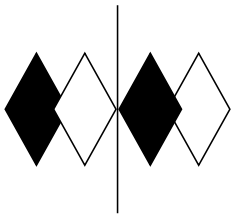
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	28
5- 10	83
10- 15	136
15- 20	183
20- 25	223
25- 30	255
30- 35	278
35- 40	291
40- 45	294
45- 50	287
50- 55	271
55- 60	246
60- 65	214
65- 70	177
70- 75	135
75- 80	92
80- 85	51
85- 90	16

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	112
0- 20	430
0- 30	908
0- 40	1476
0- 50	2056
0- 60	2573
0- 70	2963
0- 80	3190
0- 90	3257



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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	66	66	66	66	64	64	64	64	61	61	61	59	59	59	56	56	56	55
1	60	57	55	53	58	56	54	52	54	52	50	52	50	49	50	48	47	46
2	55	50	46	43	53	49	45	43	47	44	42	45	43	41	43	41	40	38
3	50	44	39	36	48	43	39	35	41	38	35	40	37	34	38	36	34	32
4	46	39	34	30	44	38	34	30	37	33	30	35	32	29	34	31	29	28
5	42	35	30	26	41	34	29	26	33	29	26	32	28	25	31	28	25	24
6	39	31	26	23	38	31	26	23	30	26	23	29	25	22	28	25	22	21
7	36	28	24	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19
8	33	26	21	18	33	26	21	18	25	21	18	24	20	18	23	20	18	17
9	31	24	19	16	30	23	19	16	23	19	16	22	19	16	22	18	16	15
10	29	22	18	15	29	22	18	15	21	17	15	21	17	15	20	17	14	14

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.