

REPORT NUMBER: ITL76168

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ISSUE DATE: 02/19/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-1-4-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 LAMP.

LAMP: ONE 32-WATT T-8 FO32/835 LINEAR FLUORESCENT.

BALLAST: UNIVERSAL B232IUNV-C

MOUNTING: RECESSED

TOTAL REFLECTANCE OF PAINT = 88.9 %

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.

TOTAL INPUT WATTS = 32.7 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	943	943	943	943	943	
5	938	937	930	923	920	88
15	892	884	861	840	831	242
25	799	781	727	688	664	335
35	662	624	540	480	456	342
45	476	428	334	267	246	271
55	306	269	182	175	191	199
65	172	146	144	210	231	174
75	82	75	139	200	217	145
85	15	33	64	78	76	59
90	0	0	0	0	0	

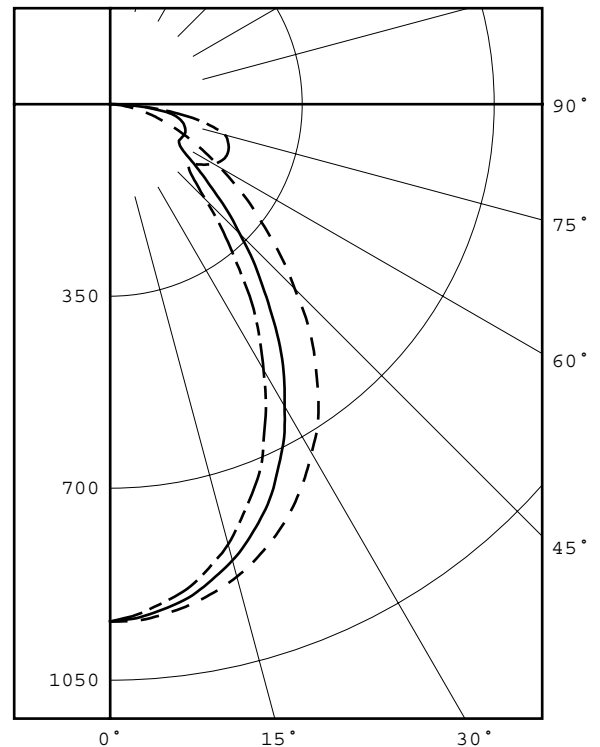
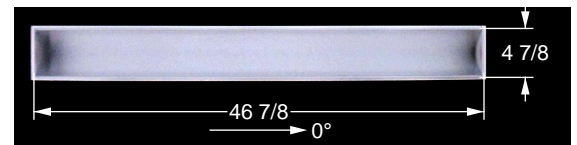
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	665	22.5	35.8
0- 40	1007	34.1	54.3
0- 60	1478	50.1	79.6
0- 90	1856	62.9	100.0
90-180	0	0.0	0.0
0-180	1856	62.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 62.9 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.17 0.97  
SHIELDING ANGLES : 90 90  
LUMINOUS LENGTH : 46.875 4.875

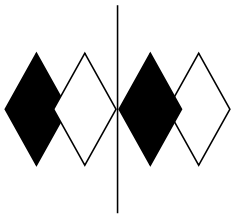
LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	4566.	3204.	2360.
55	3619.	2152.	2259.
65	2761.	2311.	3707.
75	2149.	3643.	5687.
85	1167.	4981.	5915.



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

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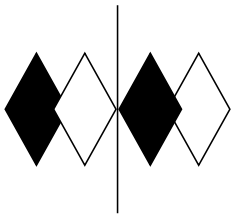
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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	943	943	943	943	943
2.5	943	942	939	933	934
5.0	938	937	930	923	920
7.5	930	928	919	908	905
10.0	920	917	904	891	886
12.5	907	901	883	866	859
15.0	892	884	861	840	831
17.5	873	863	834	810	793
20.0	851	838	803	770	756
22.5	827	811	769	732	717
25.0	799	781	727	688	664
27.5	768	745	686	638	615
30.0	734	709	636	586	559
32.5	702	666	590	530	507
35.0	662	624	540	480	456
37.5	617	578	484	426	394
40.0	575	526	432	371	340
42.5	528	478	385	319	293
45.0	476	428	334	267	246
47.5	432	385	292	229	212
50.0	386	343	248	198	189
52.5	343	302	213	178	183
55.0	306	269	182	175	191
57.5	267	237	158	182	205
60.0	232	203	146	194	218
62.5	201	175	142	203	226
65.0	172	146	144	210	231
67.5	147	122	146	211	232
70.0	123	101	146	211	230
72.5	100	86	143	207	225
75.0	82	75	139	200	217
77.5	61	65	131	185	192
80.0	44	55	120	156	160
82.5	28	45	97	122	118
85.0	15	33	64	78	76
87.5	3	16	28	36	36
90.0	0	0	0	0	0



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5-DEGREE

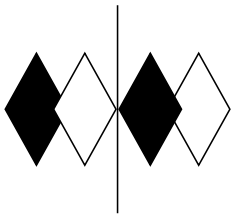
ZONAL LUMEN SUMMARY

0- 5	22
5- 10	66
10- 15	105
15- 20	137
20- 25	161
25- 30	174
30- 35	176
35- 40	166
40- 45	147
45- 50	124
50- 55	105
55- 60	94
60- 65	89
65- 70	85
70- 75	78
75- 80	67
80- 85	45
85- 90	14

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	88
0- 20	330
0- 30	665
0- 40	1007
0- 50	1278
0- 60	1478
0- 70	1651
0- 80	1797
0- 90	1856



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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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	68	65	63	60	67	64	62	59	61	59	57	59	57	56	57	55	54	53
2	63	58	53	50	61	56	53	49	54	51	48	52	49	47	50	48	46	45
3	58	51	46	42	56	50	46	42	48	44	41	47	43	41	45	42	40	39
4	53	46	41	37	52	45	40	36	44	39	36	42	38	35	41	38	35	34
5	49	42	36	32	48	41	36	32	40	35	32	38	35	31	37	34	31	30
6	46	38	33	29	45	37	32	29	36	32	28	35	31	28	34	31	28	27
7	43	35	30	26	42	34	29	26	33	29	26	32	28	25	32	28	25	24
8	40	32	27	23	39	32	27	23	31	26	23	30	26	23	29	26	23	22
9	38	30	25	21	37	29	25	21	29	24	21	28	24	21	27	24	21	20
10	36	28	23	20	35	27	23	20	27	22	20	26	22	19	26	22	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.