

REPORT NUMBER: ITL76167

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ISSUE DATE: 02/18/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-1-4-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.

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 = 32.3 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	792	792	792	792	792	
5	788	788	785	782	781	74
15	747	750	749	746	747	211
25	674	678	676	674	668	310
35	573	574	569	562	555	354
45	446	449	438	425	417	337
55	319	322	309	294	286	274
65	201	201	189	181	175	189
75	103	102	96	93	90	103
85	26	27	25	25	25	29
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	595	20.2	31.6
0- 40	949	32.2	50.4
0- 60	1560	52.9	82.9
0- 90	1882	63.8	100.0
90-180	0	0.0	0.0
0-180	1882	63.8	100.0

TOTAL LUMINAIRE EFFICIENCY = 63.8 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.18 1.16

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

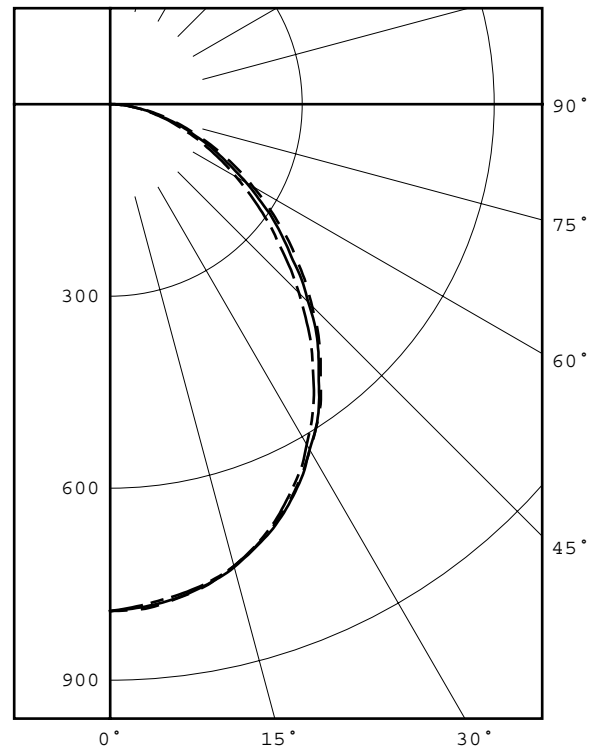
45 4278. 4202. 4000.

55 3772. 3654. 3382.

65 3226. 3033. 2809.

75 2699. 2516. 2359.

85 2023. 1946. 1946.



LEGEND:

0-deg

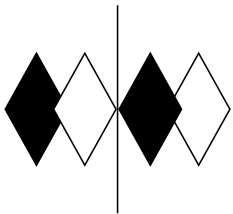
45-deg

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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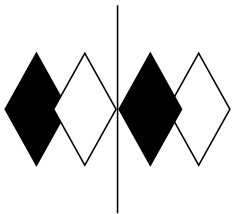
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	792	792	792	792	792
2.5	791	792	789	787	787
5.0	788	788	785	782	781
7.5	780	781	779	777	775
10.0	772	774	771	769	768
12.5	761	762	761	758	759
15.0	747	750	749	746	747
17.5	732	736	733	732	731
20.0	715	718	717	715	713
22.5	696	699	698	695	692
25.0	674	678	676	674	668
27.5	650	654	652	647	644
30.0	624	630	623	621	614
32.5	599	602	599	591	586
35.0	573	574	569	562	555
37.5	540	546	535	530	520
40.0	511	514	506	495	488
42.5	480	483	475	461	452
45.0	446	449	438	425	417
47.5	415	417	406	392	383
50.0	382	386	369	359	347
52.5	352	351	339	324	317
55.0	319	322	309	294	286
57.5	289	291	275	264	256
60.0	258	259	246	234	227
62.5	230	230	215	208	201
65.0	201	201	189	181	175
67.5	175	175	165	157	153
70.0	148	150	139	135	129
72.5	125	124	118	112	108
75.0	103	102	96	93	90
77.5	81	81	75	73	70
80.0	61	61	58	55	55
82.5	42	44	40	40	39
85.0	26	27	25	25	25
87.5	12	12	13	12	12
90.0	0	0	0	0	0



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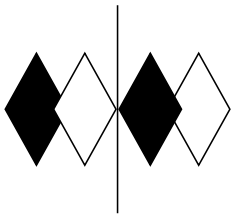
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	19
5- 10	56
10- 15	90
15- 20	121
20- 25	146
25- 30	164
30- 35	175
35- 40	178
40- 45	174
45- 50	163
50- 55	147
55- 60	127
60- 65	106
65- 70	84
70- 75	62
75- 80	41
80- 85	23
85- 90	7

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	74
0- 20	285
0- 30	595
0- 40	949
0- 50	1286
0- 60	1560
0- 70	1749
0- 80	1852
0- 90	1882



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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	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	70	67	64	62	68	66	63	61	63	61	59	60	59	57	58	57	56	54
2	64	59	55	51	62	58	54	51	55	52	50	53	51	48	51	49	47	46
3	59	52	47	43	57	51	47	43	49	45	42	48	44	41	46	43	41	39
4	54	47	41	37	52	46	41	37	44	40	36	43	39	36	41	38	35	34
5	50	42	36	32	48	41	36	32	40	35	32	39	35	31	37	34	31	30
6	46	38	32	28	45	37	32	28	36	31	28	35	31	28	34	30	28	26
7	43	34	29	25	42	34	29	25	33	28	25	32	28	25	31	27	25	23
8	40	32	26	23	39	31	26	23	30	26	22	29	25	22	29	25	22	21
9	37	29	24	20	36	29	24	20	28	23	20	27	23	20	27	23	20	19
10	35	27	22	19	34	27	22	19	26	22	19	25	21	18	25	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.