

REPORT NUMBER: ITL76169

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ISSUE DATE: 02/19/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-1-4-X-PB-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, FABRICATED SEMI-SPECULAR METAL PARABOLIC 31-CELL LOUVER.

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 = 33.3 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	774	774	774	774	774	
5	767	771	774	775	776	74
15	724	737	769	805	820	218
25	661	691	756	824	853	348
35	575	620	687	703	711	411
45	458	504	491	449	444	366
55	297	323	273	271	282	255
65	73	81	95	109	118	101
75	11	12	13	18	19	18
85	1	2	1	2	2	2
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	640	21.7	35.7
0- 40	1051	35.6	58.6
0- 60	1672	56.7	93.2
0- 90	1794	60.8	100.0
90-180	0	0.0	0.0
0-180	1794	60.8	100.0

TOTAL LUMINAIRE EFFICIENCY = 60.8 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.20 1.41

SHIELDING ANGLES : 30 42

LUMINOUS LENGTH : 46.625 4.375

LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE AVERAGE AVERAGE

IN DEG 0-DEG 45-DEG 90-DEG

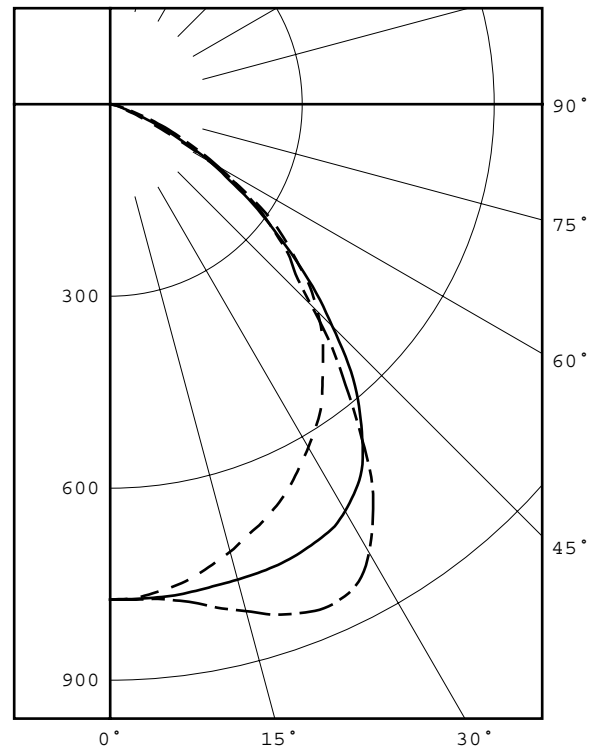
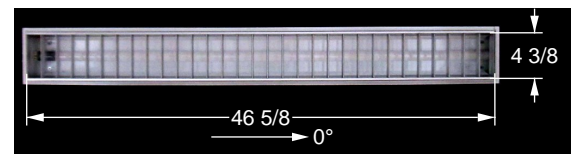
45 4922. 5276. 4771.

55 3935. 3617. 3736.

65 1313. 1708. 2122.

75 323. 382. 558.

85 87. 87. 174.



LEGEND:

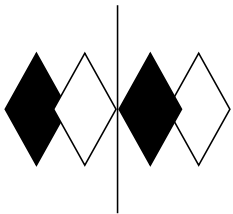
0-deg - - - - -

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.
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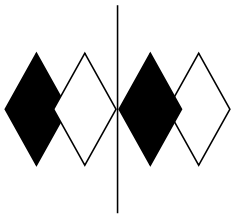
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	774	774	774	774	774
2.5	773	774	774	774	775
5.0	767	771	774	775	776
7.5	760	766	774	780	782
10.0	750	757	772	785	792
12.5	737	748	770	796	807
15.0	724	737	769	805	820
17.5	708	727	768	814	836
20.0	695	716	766	821	847
22.5	679	704	762	826	855
25.0	661	691	756	824	853
27.5	640	674	749	813	841
30.0	619	659	734	790	809
32.5	598	639	714	749	764
35.0	575	620	687	703	711
37.5	545	599	646	645	639
40.0	517	568	602	575	572
42.5	491	541	551	513	511
45.0	458	504	491	449	444
47.5	424	467	437	394	393
50.0	380	424	378	344	362
52.5	341	372	322	311	320
55.0	297	323	273	271	282
57.5	239	260	221	230	236
60.0	180	195	182	186	195
62.5	119	137	135	146	153
65.0	73	81	95	109	118
67.5	44	48	62	78	87
70.0	25	29	35	53	55
72.5	17	18	21	33	33
75.0	11	12	13	18	19
77.5	7	7	8	11	12
80.0	4	4	5	7	7
82.5	2	3	3	4	4
85.0	1	2	1	2	2
87.5	0	0	0	0	1
90.0	0	0	0	0	0



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5-DEGREE

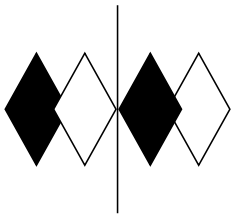
ZONAL LUMEN SUMMARY

0- 5	18
5- 10	55
10- 15	91
15- 20	127
20- 25	160
25- 30	188
30- 35	204
35- 40	206
40- 45	194
45- 50	172
50- 55	145
55- 60	110
60- 65	68
65- 70	33
70- 75	13
75- 80	5
80- 85	2
85- 90	0

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	74
0- 20	292
0- 30	640
0- 40	1051
0- 50	1417
0- 60	1672
0- 70	1773
0- 80	1791
0- 90	1794



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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	72	72	72	72	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	68	65	63	62	66	64	62	61	62	60	59	59	58	57	57	56	55	54
2	63	59	55	52	61	57	54	52	55	53	51	53	51	49	52	50	48	47
3	58	52	48	45	56	52	48	45	50	46	44	48	45	43	47	44	42	41
4	53	47	43	39	52	46	42	39	45	41	38	44	40	38	42	40	37	36
5	49	43	38	34	48	42	37	34	41	37	34	40	36	33	38	35	33	32
6	46	39	34	30	45	38	33	30	37	33	30	36	32	30	35	32	29	28
7	43	35	30	27	42	35	30	27	34	30	27	33	29	27	32	29	26	25
8	40	32	27	24	39	32	27	24	31	27	24	30	27	24	30	26	24	23
9	37	30	25	22	36	29	25	22	29	25	22	28	24	22	27	24	22	21
10	35	27	23	20	34	27	23	20	27	23	20	26	22	20	25	22	20	19

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.