

REPORT NUMBER: ITL76170

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ISSUE DATE: 02/20/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR5-1-4-X-PBW-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 WHITE PAINTED 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	863	863	863	863	863	
5	852	857	859	859	860	81
15	774	787	818	855	871	232
25	668	697	756	821	850	348
35	545	586	652	670	682	392
45	403	452	460	440	452	344
55	251	291	268	290	314	253
65	111	118	143	164	182	146
75	61	62	64	77	85	73
85	14	14	15	18	20	19
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	661	22.4	35.0
0- 40	1053	35.7	55.8
0- 60	1650	55.9	87.4
0- 90	1888	64.0	100.0
90-180	0	0.0	0.0
0-180	1888	64.0	100.0

TOTAL LUMINAIRE EFFICIENCY = 64.0 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.07 1.30

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

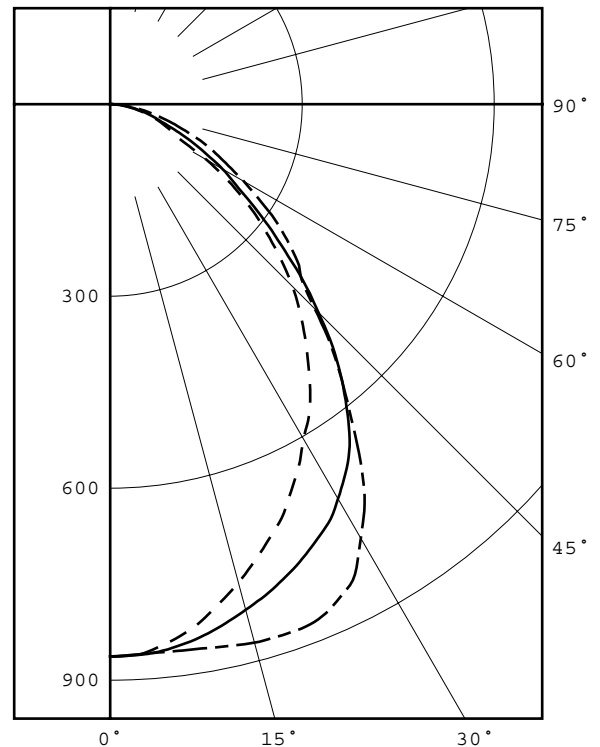
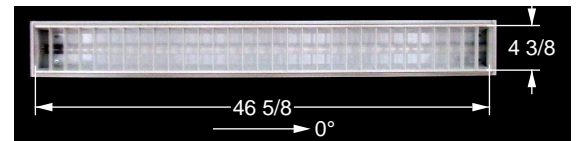
45 4331. 4943. 4857.

55 3325. 3550. 4160.

65 1996. 2571. 3272.

75 1791. 1879. 2496.

85 1221. 1308. 1744.



LEGEND:

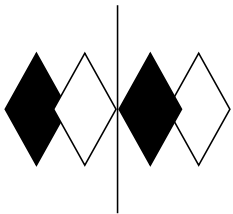
0-deg

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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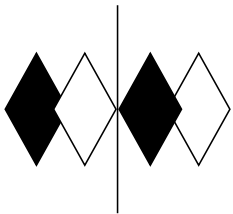
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CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	863	863	863	863	863
2.5	862	862	862	860	861
5.0	852	857	859	859	860
7.5	838	844	852	858	861
10.0	820	828	843	856	863
12.5	797	808	831	856	867
15.0	774	787	818	855	871
17.5	749	768	805	851	872
20.0	724	745	790	845	872
22.5	700	722	774	836	866
25.0	668	697	756	821	850
27.5	638	670	738	796	828
30.0	604	642	712	766	783
32.5	578	614	684	719	740
35.0	545	586	652	670	682
37.5	508	556	609	613	619
40.0	473	521	563	553	563
42.5	438	488	515	498	510
45.0	403	452	460	440	452
47.5	364	416	410	392	406
50.0	325	379	356	349	382
52.5	289	333	311	322	348
55.0	251	291	268	290	314
57.5	212	246	231	257	275
60.0	174	197	203	223	241
62.5	132	155	171	192	208
65.0	111	118	143	164	182
67.5	98	101	117	140	157
70.0	85	87	93	118	130
72.5	73	74	77	96	106
75.0	61	62	64	77	85
77.5	46	49	50	59	67
80.0	35	37	39	44	50
82.5	24	25	25	31	33
85.0	14	14	15	18	20
87.5	5	5	6	7	8
90.0	0	0	0	0	0



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5-DEGREE

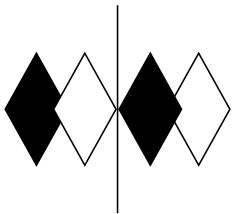
ZONAL LUMEN SUMMARY

0- 5	21
5- 10	61
10- 15	99
15- 20	133
20- 25	163
25- 30	185
30- 35	197
35- 40	195
40- 45	182
45- 50	162
50- 55	140
55- 60	113
60- 65	84
65- 70	62
70- 75	44
75- 80	29
80- 85	15
85- 90	4

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	81
0- 20	313
0- 30	661
0- 40	1053
0- 50	1397
0- 60	1650
0- 70	1796
0- 80	1869
0- 90	1888



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	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	71	68	66	63	69	66	64	62	64	62	60	61	60	59	59	58	57	56
2	65	60	56	53	63	59	56	53	57	54	51	55	52	50	53	51	49	48
3	60	54	49	45	58	53	48	45	51	47	44	49	46	43	48	45	43	41
4	55	48	43	39	54	47	43	39	46	42	38	44	41	38	43	40	38	36
5	51	44	38	34	50	43	38	34	42	37	34	40	37	34	39	36	33	32
6	47	40	34	30	46	39	34	30	38	33	30	37	33	30	36	32	30	28
7	44	36	31	27	43	36	31	27	35	30	27	34	30	27	33	29	27	25
8	41	33	28	25	40	33	28	24	32	27	24	31	27	24	30	27	24	23
9	39	31	26	22	38	30	25	22	29	25	22	29	25	22	28	25	22	21
10	36	28	23	20	36	28	23	20	27	23	20	27	23	20	26	23	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.