

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL77268

ISSUE DATE: 05/28/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLP5-D2-4-PBW-120-T8

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED FLAT METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR AND SOCKET MOUNTING BRACKETS, FABRICATED WHITE PAINTED METAL PARABOLIC 32-CELL LOUVER.

LAMPS: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.

BALLAST: UNIVERSAL B232IUNV-C

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

TOTAL REFLECTANCE OF PAINT = 89.3 %

MOUNTING: SURFACE/SUSPENDED

TOTAL INPUT WATTS = 51.5 AT 120.0 VOLTS

REPORT IS BASED ON 2950 LUMENS PER LAMP.

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1646	1646	1646	1646	1646	
5	1635	1625	1644	1651	1649	156
15	1507	1514	1569	1622	1639	443
25	1315	1340	1442	1549	1601	666
35	1092	1138	1262	1367	1438	785
45	825	899	997	1076	1159	762
55	531	600	673	742	823	601
65	244	265	346	412	453	349
75	131	134	142	167	186	161
85	34	35	38	42	45	45
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1265	21.4	31.9
0- 40	2050	34.7	51.7
0- 60	3413	57.9	86.0
0- 90	3968	67.3	100.0
90-180	0	0.0	0.0
0-180	3968	67.3	100.0

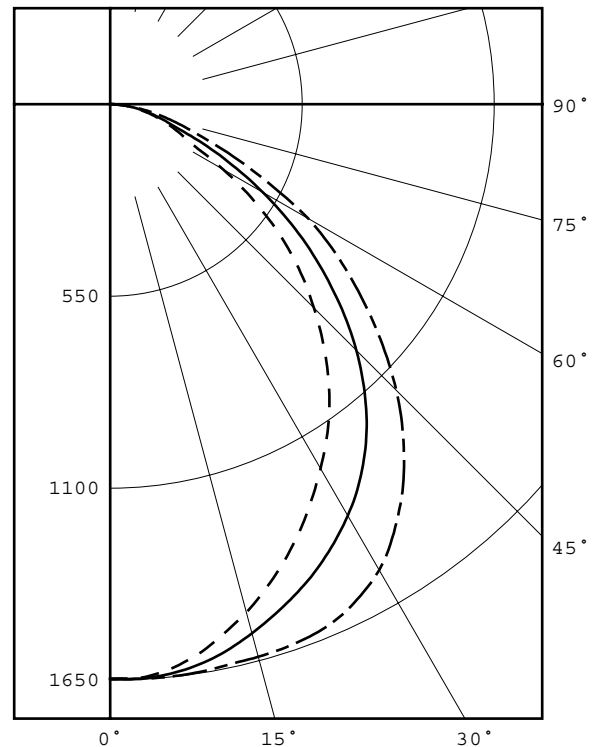
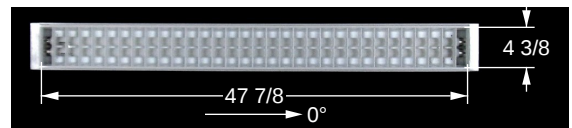
TOTAL LUMINAIRE EFFICIENCY = 67.3 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.11 1.36
SHIELDING ANGLES : 27 19
LUMINOUS LENGTH : 47.875 4.375

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	8634.	10434.	12130.
55	6851.	8683.	10618.
65	4273.	6059.	7932.
75	3746.	4060.	5318.
85	2887.	3227.	3821.



LEGEND:

0-deg -----
45-deg -----
90-deg -----

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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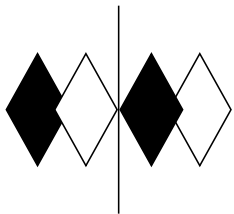
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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1646	1646	1646	1646	1646
2.5	1646	1633	1648	1651	1648
5.0	1635	1625	1644	1651	1649
7.5	1613	1608	1634	1647	1648
10.0	1583	1582	1618	1642	1645
12.5	1545	1549	1596	1631	1640
15.0	1507	1514	1569	1622	1639
17.5	1463	1475	1540	1611	1636
20.0	1417	1433	1510	1595	1630
22.5	1367	1388	1478	1575	1620
25.0	1315	1340	1442	1549	1601
27.5	1260	1291	1403	1515	1574
30.0	1205	1240	1361	1475	1541
32.5	1150	1191	1315	1426	1494
35.0	1092	1138	1262	1367	1438
37.5	1030	1085	1205	1301	1378
40.0	964	1026	1141	1229	1309
42.5	895	963	1071	1153	1237
45.0	825	899	997	1076	1159
47.5	757	831	919	995	1076
50.0	685	757	836	909	991
52.5	611	680	755	826	906
55.0	531	600	673	742	823
57.5	452	517	589	663	741
60.0	374	429	505	583	655
62.5	298	344	423	500	549
65.0	244	265	346	412	453
67.5	214	220	276	334	366
70.0	185	189	212	266	290
72.5	157	161	172	211	233
75.0	131	134	142	167	186
77.5	105	108	114	129	145
80.0	80	83	88	97	107
82.5	58	59	62	68	74
85.0	34	35	38	42	45
87.5	13	14	16	18	20
90.0	0	0	0	0	0



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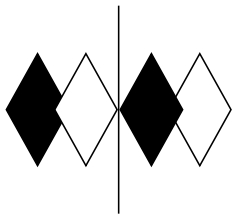
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	39
5- 10	116
10- 15	189
15- 20	254
20- 25	311
25- 30	356
30- 35	386
35- 40	399
40- 45	393
45- 50	369
50- 55	328
55- 60	273
60- 65	206
65- 70	143
70- 75	97
75- 80	64
80- 85	35
85- 90	10

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	156
0- 20	599
0- 30	1265
0- 40	2050
0- 50	2813
0- 60	3413
0- 70	3762
0- 80	3923
0- 90	3968



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	80	80	80	80	78	78	78	78	75	75	75	72	72	72	69	69	69	67
1	74	71	68	66	72	70	67	65	67	65	63	64	63	61	62	60	59	58
2	68	63	59	55	66	62	58	54	59	56	53	57	54	52	55	53	51	49
3	62	56	51	47	61	55	50	46	53	49	45	51	47	45	49	46	44	42
4	57	50	44	40	56	49	44	40	47	43	39	46	42	39	44	41	38	37
5	53	45	39	35	52	44	39	35	43	38	34	41	37	34	40	36	34	32
6	49	40	35	31	48	40	34	30	39	34	30	38	33	30	36	33	30	28
7	46	37	31	27	44	36	31	27	35	30	27	34	30	27	33	30	27	25
8	42	34	28	24	41	33	28	24	32	28	24	32	27	24	31	27	24	23
9	40	31	26	22	39	31	25	22	30	25	22	29	25	22	28	25	22	20
10	37	29	23	20	36	28	23	20	28	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.