

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: ITL77267

ISSUE DATE: 05/24/13

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REVISED: 06/18/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLP5-D2-4-PB-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 SEMI-DIFFUSE 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 = 51.7 AT 120.0 VOLTS

REPORT IS BASED ON 2950 LUMENS PER LAMP.

CANDELA DISTRIBUTION

FLUX

	0.0	22.5	45.0	67.5	90.0	
0	1431	1431	1431	1431	1431	
5	1426	1417	1433	1438	1436	136
15	1351	1356	1399	1439	1451	396
25	1240	1262	1350	1449	1497	626
35	1097	1145	1266	1360	1419	785
45	910	984	1068	1130	1202	814
55	630	705	753	808	888	670
65	191	221	305	392	444	313
75	22	26	33	50	55	49
85	3	3	4	5	6	6
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1158	19.6	30.5
0- 40	1943	32.9	51.2
0- 60	3427	58.1	90.3
0- 90	3794	64.3	100.0
90-180	0	0.0	0.0
0-180	3794	64.3	100.0

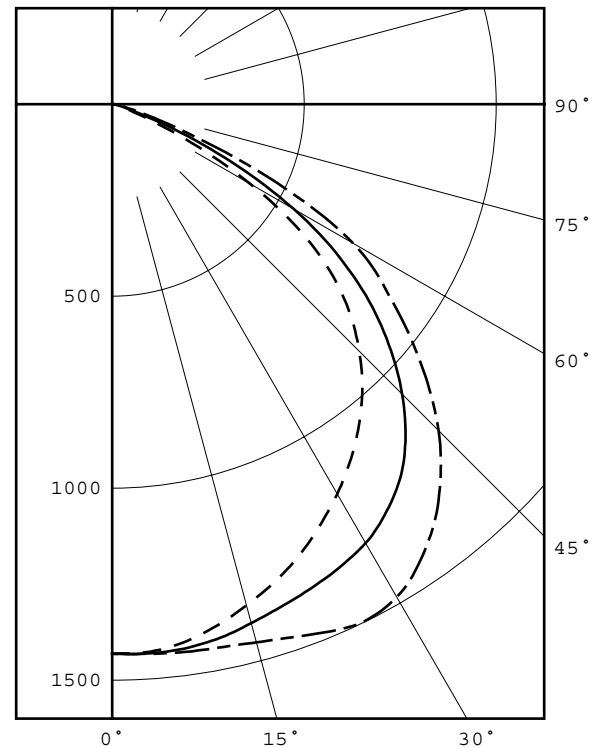
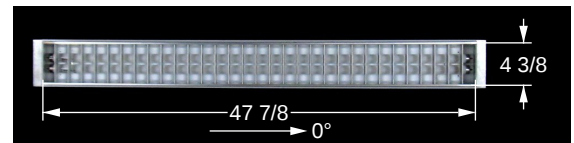
TOTAL LUMINAIRE EFFICIENCY = 64.3 %

CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG
SPACING CRITERIA	: 1.22	1.49
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	9524.	11177.	12580.
55	8128.	9715.	11457.
65	3345.	5341.	7775.
75	629.	944.	1573.
85	255.	340.	509.



LEGEND:

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

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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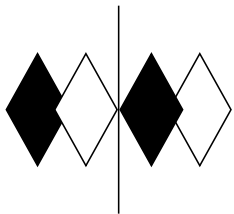
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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	1431	1431	1431	1431	1431
2.5	1431	1420	1433	1436	1433
5.0	1426	1417	1433	1438	1436
7.5	1414	1408	1430	1440	1439
10.0	1396	1394	1423	1440	1441
12.5	1375	1376	1413	1438	1444
15.0	1351	1356	1399	1439	1451
17.5	1327	1335	1386	1440	1460
20.0	1301	1312	1374	1443	1472
22.5	1272	1289	1362	1446	1486
25.0	1240	1262	1350	1449	1497
27.5	1206	1233	1336	1443	1495
30.0	1172	1205	1320	1426	1482
32.5	1135	1176	1296	1399	1456
35.0	1097	1145	1266	1360	1419
37.5	1055	1111	1231	1312	1377
40.0	1011	1073	1185	1257	1325
42.5	963	1032	1130	1195	1267
45.0	910	984	1068	1130	1202
47.5	853	931	999	1055	1128
50.0	789	866	924	975	1049
52.5	716	792	844	893	969
55.0	630	705	753	808	888
57.5	529	598	656	723	814
60.0	416	476	545	633	724
62.5	299	346	426	521	595
65.0	191	221	305	392	444
67.5	108	129	194	261	290
70.0	58	71	103	158	175
72.5	35	41	54	90	103
75.0	22	26	33	50	55
77.5	15	16	20	29	33
80.0	9	11	13	17	19
82.5	6	6	8	10	11
85.0	3	3	4	5	6
87.5	1	1	1	2	2
90.0	0	0	0	0	0



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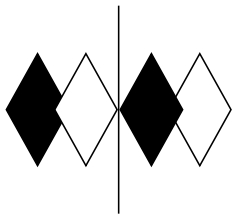
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	34
5- 10	102
10- 15	167
15- 20	229
20- 25	287
25- 30	339
30- 35	380
35- 40	405
40- 45	413
45- 50	401
50- 55	365
55- 60	304
60- 65	211
65- 70	103
70- 75	36
75- 80	13
80- 85	5
85- 90	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	136
0- 20	532
0- 30	1158
0- 40	1943
0- 50	2757
0- 60	3427
0- 70	3740
0- 80	3789
0- 90	3794



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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	77	77	77	77	75	75	75	75	71	71	71	68	68	68	66	66	66	64
1	71	69	66	64	70	67	65	63	65	63	61	62	61	59	60	59	58	56
2	65	61	57	54	64	60	56	53	57	55	52	55	53	51	54	52	50	48
3	60	54	49	46	59	53	49	45	51	47	44	49	46	44	48	45	43	42
4	55	48	43	39	54	47	43	39	46	42	38	44	41	38	43	40	37	36
5	51	43	38	34	50	42	37	34	41	37	33	40	36	33	39	35	33	31
6	47	39	33	30	46	38	33	29	37	33	29	36	32	29	35	32	29	27
7	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	28	26	24
8	41	32	27	23	40	32	27	23	31	26	23	30	26	23	29	26	23	22
9	38	30	24	21	37	29	24	21	28	24	21	28	24	21	27	23	21	19
10	35	27	22	19	35	27	22	19	26	22	19	26	22	19	25	21	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.