

REPORT NUMBER: ITL71739

PAGE: 1 OF 4

ISSUE DATE: 02/28/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLR3-1-4-XX-LP-120-T8

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, EXTRUDED CLEAR LINEAR PRISMATIC CONCAVE ACRYLIC LENS. LAMP IS MOUNTED OBLIQUELY ACROSS LUMINOUS OPENING. LENS PRISMS DOWN AND PARALLEL WITH LENGTH OF LUMINAIRE.

LAMP: ONE 32-WATT T-8 FO32/835 LINEAR FLUORESCENT.

BALLAST: UNIVERSAL B232IUNV-C

MOUNTING: RECESSED

THE 0 DEGREE PLANE IS PARALLEL WITH THE LUMINAIRE LENGTH.

TOTAL INPUT WATTS = 32.9 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	834	834	834	834	834	
5	829	827	818	809	805	77
15	781	768	738	705	696	207
25	688	664	597	540	514	275
35	554	518	427	366	348	275
45	398	360	278	255	253	238
55	266	233	193	207	216	197
65	162	142	151	182	194	162
75	79	80	116	145	152	118
85	16	28	42	48	46	42
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	558	18.9	35.1
0- 40	834	28.3	52.4
0- 60	1269	43.0	79.8
0- 90	1591	53.9	100.0
90-180	0	0.0	0.0
0-180	1591	53.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 53.9 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.13 0.87

SHIELDING ANGLES : 90 90

LUMINOUS LENGTH : 46.875 2.875

LUMINANCE DATA IN CANDELA/SQ M

ANGLE AVERAGE AVERAGE AVERAGE

IN DEG 0-DEG 45-DEG 90-DEG

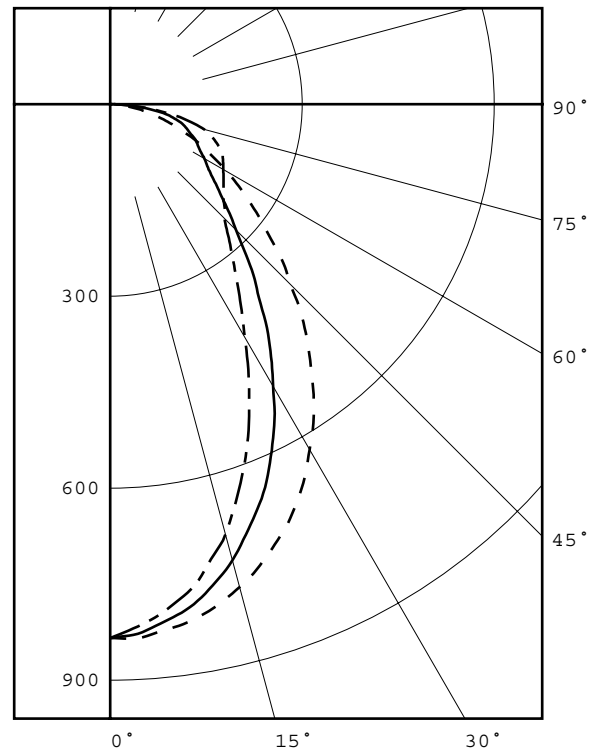
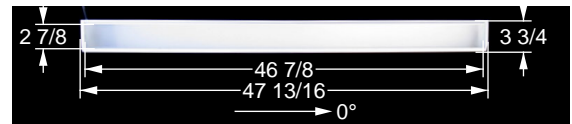
45 6474. 4522. 4115.

55 5334. 3870. 4331.

65 4409. 4109. 5280.

75 3511. 5155. 6755.

85 2111. 5543. 6070.



LEGEND:

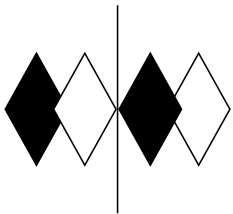
0-deg - - - - -

45-deg = = = = =

90-deg - - - - -

Checked *S. BERGIN*

Approved *R. BEATTIE*
Lighting Engineer



REPORT NUMBER: ITL71739

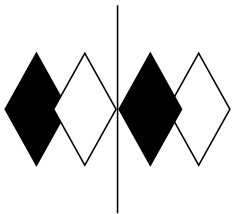
PAGE: 2 OF 4

ISSUE DATE: 02/28/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	834	834	834	834	834
2.5	836	835	830	821	820
5.0	829	827	818	809	805
7.5	822	816	805	790	785
10.0	812	804	788	768	763
12.5	798	786	764	738	728
15.0	781	768	738	705	696
17.5	762	746	705	670	652
20.0	739	719	673	627	608
22.5	716	693	638	583	563
25.0	688	664	597	540	514
27.5	658	627	556	490	467
30.0	623	591	509	446	421
32.5	591	554	468	403	382
35.0	554	518	427	366	348
37.5	515	481	382	333	318
40.0	478	440	348	301	293
42.5	441	400	310	277	271
45.0	398	360	278	255	253
47.5	367	328	253	240	243
50.0	328	295	229	227	231
52.5	296	262	210	215	223
55.0	266	233	193	207	216
57.5	238	208	180	201	210
60.0	211	183	170	195	204
62.5	184	162	159	189	199
65.0	162	142	151	182	194
67.5	141	125	144	177	188
70.0	115	107	133	167	177
72.5	98	92	125	158	166
75.0	79	80	116	145	152
77.5	61	66	103	126	130
80.0	46	53	88	104	105
82.5	29	41	66	78	74
85.0	16	28	42	48	46
87.5	6	14	18	20	19
90.0	0	0	0	0	0



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71739

PAGE: 3 OF 4

ISSUE DATE: 02/28/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

5-DEGREE

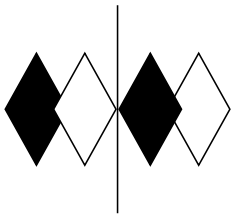
ZONAL LUMEN SUMMARY

0- 5	20.
5- 10	57.
10- 15	90.
15- 20	116.
20- 25	134.
25- 30	141.
30- 35	141.
35- 40	135.
40- 45	124.
45- 50	114.
50- 55	103.
55- 60	94.
60- 65	85.
65- 70	77.
70- 75	66.
75- 80	52.
80- 85	32.
85- 90	10.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	77.
0- 20	284.
0- 30	558.
0- 40	834.
0- 50	1072.
0- 60	1269.
0- 70	1431.
0- 80	1549.
0- 90	1591.
0-100	1591.
0-110	1591.
0-120	1591.
0-130	1591.
0-140	1591.
0-150	1591.
0-160	1591.
0-170	1591.
0-180	1591.



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71739

PAGE: 4 OF 4

ISSUE DATE: 02/28/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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	64	64	64	64	63	63	63	63	60	60	60	57	57	57	55	55	55	54
1	59	56	54	52	57	55	53	51	53	51	49	51	49	48	49	47	46	45
2	54	49	46	43	52	48	45	42	46	44	41	45	42	40	43	41	40	38
3	49	44	40	36	48	43	39	36	41	38	35	40	37	35	39	36	34	33
4	45	39	35	31	44	39	34	31	37	34	31	36	33	30	35	32	30	29
5	42	35	31	27	41	35	31	27	34	30	27	33	29	27	32	29	26	25
6	39	32	28	24	38	32	27	24	31	27	24	30	26	24	29	26	24	23
7	37	30	25	22	36	29	25	22	28	24	22	28	24	22	27	24	21	20
8	34	27	23	20	33	27	23	20	26	22	20	26	22	20	25	22	19	18
9	32	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
10	30	23	19	17	30	23	19	17	23	19	17	22	19	16	22	19	16	15

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.