

REPORT NUMBER: ITL71735

PAGE: 1 OF 4

ISSUE DATE: 02/27/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, EXTRUDED TRANSLUCENT WHITE FLAT ACRYLIC DIFFUSER. LAMP IS MOUNTED OBLIQUELY ACROSS LUMINOUS OPENING.

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 = 32.7 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	462	462	462	462	462	
5	462	462	459	456	454	44
15	443	444	441	438	436	124
25	409	411	406	404	400	187
35	361	364	357	356	352	224
45	303	306	296	297	293	231
55	235	239	230	233	227	208
65	158	165	155	160	154	157
75	81	88	81	86	80	88
85	13	18	16	21	18	22
90	0	0	0	0	0	

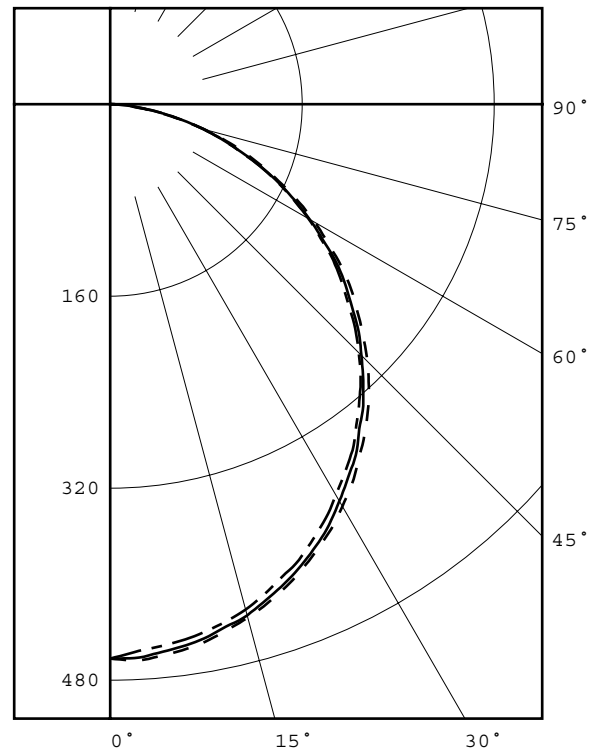
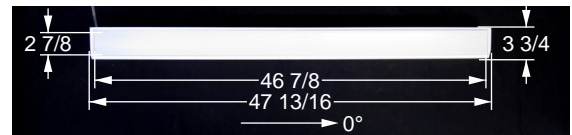
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	355	12.0	27.6	
0- 40	579	19.6	45.0	
0- 60	1018	34.5	79.2	
0- 90	1285	43.6	100.0	
90-180	0	0.0	0.0	
0-180	1285	43.6	100.0	

TOTAL LUMINAIRE EFFICIENCY = 43.6 %

CIE TYPE - DIRECT

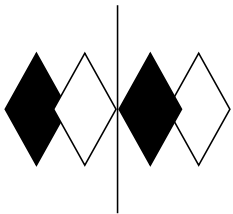
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.25 1.21
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 46.875 2.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	4929.	4815.	4766.	
55	4712.	4612.	4552.	
65	4300.	4218.	4191.	
75	3600.	3600.	3555.	
85	1716.	2111.	2375.	



LEGEND:
0-deg - - - - -
45-deg - - - - -
90-deg - - - - -

Checked *S. BERGIN*
Approved *R. BEATTIE*
Lighting Engineer



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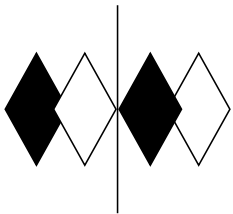
PAGE: 2 OF 4

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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	462	462	462	462	462
2.5	464	463	462	458	457
5.0	462	462	459	456	454
7.5	459	459	456	452	451
10.0	455	455	452	449	447
12.5	449	450	446	443	442
15.0	443	444	441	438	436
17.5	436	437	433	431	428
20.0	428	429	425	423	419
22.5	419	420	416	414	411
25.0	409	411	406	404	400
27.5	399	400	395	393	389
30.0	387	389	382	381	376
32.5	375	376	369	369	364
35.0	361	364	357	356	352
37.5	348	351	341	343	337
40.0	334	337	328	328	323
42.5	319	322	312	314	309
45.0	303	306	296	297	293
47.5	286	290	281	283	277
50.0	269	274	263	267	259
52.5	253	256	247	250	243
55.0	235	239	230	233	227
57.5	215	221	210	215	208
60.0	197	202	192	197	191
62.5	178	184	173	179	172
65.0	158	165	155	160	154
67.5	139	146	136	142	135
70.0	120	127	116	124	115
72.5	101	107	98	104	98
75.0	81	88	81	86	80
77.5	61	67	62	68	62
80.0	43	50	45	51	46
82.5	26	34	28	36	30
85.0	13	18	16	21	18
87.5	4	7	6	10	7
90.0	0	0	0	0	0



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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PAGE: 3 OF 4

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5-DEGREE

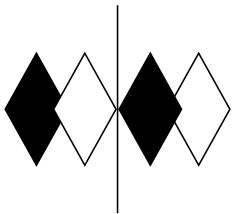
ZONAL LUMEN SUMMARY

0- 5	11.
5- 10	33.
10- 15	53.
15- 20	71.
20- 25	87.
25- 30	100.
30- 35	109.
35- 40	115.
40- 45	117.
45- 50	115.
50- 55	109.
55- 60	99.
60- 65	86.
65- 70	71.
70- 75	53.
75- 80	35.
80- 85	17.
85- 90	4.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	44.
0- 20	168.
0- 30	355.
0- 40	579.
0- 50	810.
0- 60	1018.
0- 70	1175.
0- 80	1264.
0- 90	1285.
0-100	1285.
0-110	1285.
0-120	1285.
0-130	1285.
0-140	1285.
0-150	1285.
0-160	1285.
0-170	1285.
0-180	1285.



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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	52	52	52	52	51	51	51	51	48	48	48	46	46	46	44	44	44	44
1	47	45	43	42	46	44	43	41	42	41	40	41	40	39	39	38	37	37
2	43	40	37	34	42	39	36	34	37	35	33	36	34	32	34	33	31	30
3	39	35	31	28	38	34	31	28	33	30	28	31	29	27	30	28	27	26
4	36	31	27	24	35	30	27	24	29	26	23	28	25	23	27	25	23	22
5	33	27	24	21	32	27	23	20	26	23	20	25	22	20	24	22	20	19
6	31	25	21	18	30	24	21	18	23	20	18	23	20	18	22	19	17	17
7	28	22	19	16	28	22	18	16	21	18	16	21	18	16	20	17	15	15
8	26	20	17	14	26	20	17	14	20	16	14	19	16	14	18	16	14	13
9	25	19	15	13	24	18	15	13	18	15	13	18	15	13	17	14	13	12
10	23	17	14	12	23	17	14	12	17	14	11	16	13	11	16	13	11	11

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.