

REPORT NUMBER: ITL71736

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ISSUE DATE: 02/27/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, EXTRUDED TRANSLUCENT WHITE REGRESSED ACRYLIC DIFFUSER WITH OPAQUE WHITE SIDE RAILS. 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 = 32.6 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	419	419	419	419	419	
5	418	419	417	414	413	40
15	402	404	401	398	397	113
25	372	375	370	368	363	170
35	331	333	324	318	313	203
45	279	280	264	258	251	206
55	220	218	196	192	185	180
65	150	145	125	122	113	130
75	78	73	58	55	47	66
85	15	13	5	6	4	12
90	0	0	0	0	0	

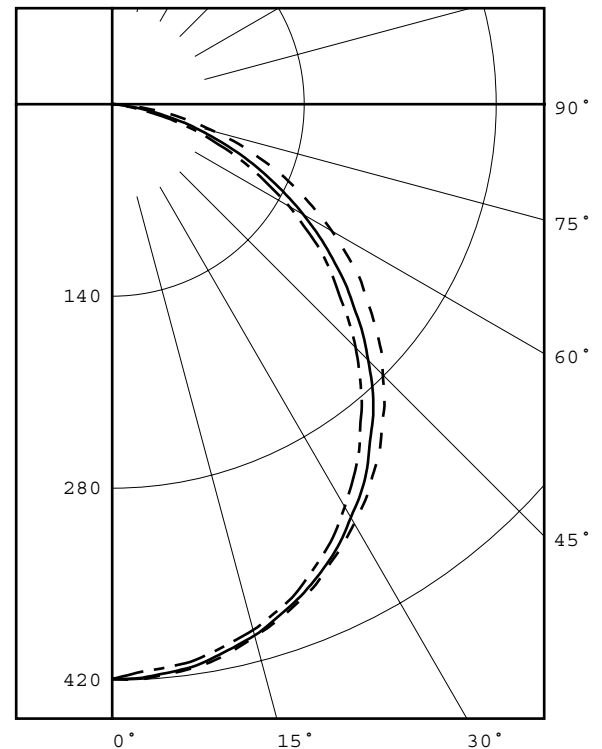
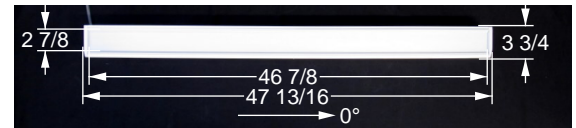
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	323	10.9	28.9	
0- 40	526	17.8	47.0	
0- 60	912	30.9	81.5	
0- 90	1119	37.9	100.0	
90-180	0	0.0	0.0	
0-180	1119	37.9	100.0	

TOTAL LUMINAIRE EFFICIENCY = 37.9 %

CIE TYPE - DIRECT

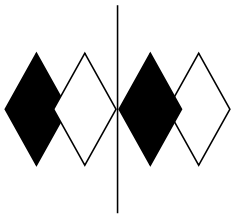
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.25 1.21
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 46.875 2.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	4538.	4294.	4083.	
55	4412.	3930.	3710.	
65	4082.	3402.	3075.	
75	3466.	2577.	2089.	
85	1979.	660.	528.	



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

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



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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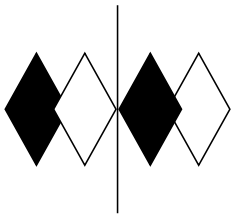
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	419	419	419	419	419
2.5	420	420	419	415	415
5.0	418	419	417	414	413
7.5	416	416	415	411	411
10.0	413	413	411	408	407
12.5	408	408	406	404	402
15.0	402	404	401	398	397
17.5	396	398	394	392	390
20.0	389	391	387	385	383
22.5	382	383	379	377	373
25.0	372	375	370	368	363
27.5	363	365	360	356	352
30.0	353	356	348	345	339
32.5	343	344	337	332	326
35.0	331	333	324	318	313
37.5	320	322	309	306	297
40.0	306	308	296	289	283
42.5	294	296	281	275	267
45.0	279	280	264	258	251
47.5	266	266	248	243	234
50.0	250	251	230	226	216
52.5	234	234	214	208	201
55.0	220	218	196	192	185
57.5	202	201	179	175	166
60.0	185	183	161	157	149
62.5	167	164	143	140	130
65.0	150	145	125	122	113
67.5	133	127	108	105	96
70.0	114	109	90	89	78
72.5	97	90	73	71	63
75.0	78	73	58	55	47
77.5	60	55	41	38	31
80.0	45	40	27	24	17
82.5	28	27	13	11	8
85.0	15	13	5	6	4
87.5	5	4	2	2	2
90.0	0	0	0	0	0



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5-DEGREE

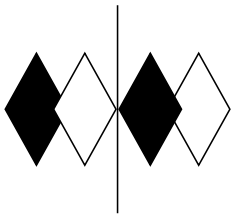
ZONAL LUMEN SUMMARY

0- 5	10.
5- 10	30.
10- 15	48.
15- 20	65.
20- 25	79.
25- 30	91.
30- 35	99.
35- 40	104.
40- 45	105.
45- 50	101.
50- 55	95.
55- 60	85.
60- 65	72.
65- 70	57.
70- 75	41.
75- 80	24.
80- 85	10.
85- 90	2.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	40.
0- 20	153.
0- 30	323.
0- 40	526.
0- 50	732.
0- 60	912.
0- 70	1042.
0- 80	1107.
0- 90	1119.
0-100	1119.
0-110	1119.
0-120	1119.
0-130	1119.
0-140	1119.
0-150	1119.
0-160	1119.
0-170	1119.
0-180	1119.



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

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.