

REPORT NUMBER: ITL71740

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ISSUE DATE: 02/28/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, EXTRUDED CLEAR FROSTED CONCAVE ACRYLIC DIFFUSER. LAMP IS MOUNTED OBLIQUELY ACROSS LUMINOUS OPENING. DIFFUSER CLEAR SIDE DOWN.

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.

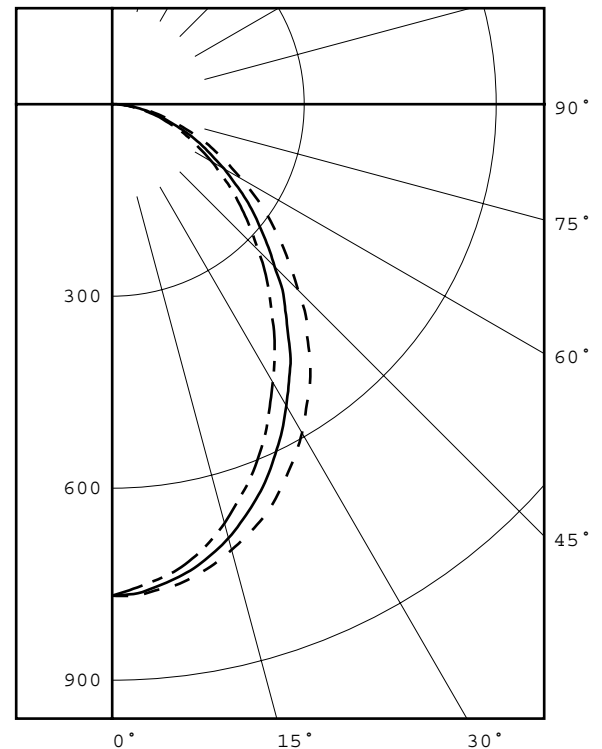
CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	768	768	768	768	768	
5	763	763	758	750	748	72
15	721	717	702	683	678	197
25	643	634	603	578	567	278
35	538	523	486	454	442	304
45	411	397	359	333	323	282
55	291	280	252	232	224	229
65	182	175	157	145	140	159
75	93	90	80	75	74	87
85	26	24	23	22	21	26
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	546	18.5	33.4
0- 40	851	28.8	52.1
0- 60	1361	46.1	83.3
0- 90	1634	55.4	100.0
90-180	0	0.0	0.0
0-180	1634	55.4	100.0

TOTAL LUMINAIRE EFFICIENCY = 55.4 %

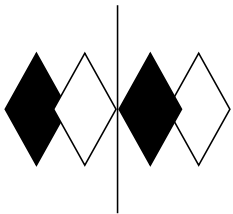
CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.16 1.01
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 46.875 2.875

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	6685.	5839.	5254.
55	5835.	5053.	4492.
65	4953.	4273.	3810.
75	4133.	3555.	3288.
85	3431.	3035.	2771.



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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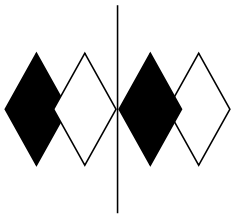
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	768	768	768	768	768
2.5	769	769	766	759	758
5.0	763	763	758	750	748
7.5	758	756	748	738	737
10.0	748	745	736	724	721
12.5	736	732	720	704	701
15.0	721	717	702	683	678
17.5	705	700	680	660	651
20.0	688	678	657	633	626
22.5	667	658	632	606	597
25.0	643	634	603	578	567
27.5	619	607	575	545	533
30.0	593	582	544	516	502
32.5	564	549	514	481	472
35.0	538	523	486	454	442
37.5	508	494	451	423	409
40.0	474	459	421	389	381
42.5	448	431	394	364	353
45.0	411	397	359	333	323
47.5	379	366	331	307	296
50.0	349	339	303	282	271
52.5	320	307	278	255	247
55.0	291	280	252	232	224
57.5	262	254	225	210	200
60.0	233	225	202	187	180
62.5	206	201	177	166	159
65.0	182	175	157	145	140
67.5	159	153	137	127	123
70.0	135	132	116	110	105
72.5	112	108	97	90	88
75.0	93	90	80	75	74
77.5	74	71	64	60	58
80.0	57	55	50	46	45
82.5	39	40	34	35	32
85.0	26	24	23	22	21
87.5	12	12	11	11	12
90.0	0	0	0	0	0



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5-DEGREE

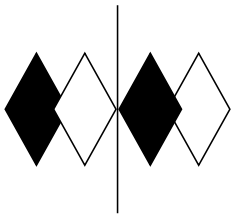
ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	53.
10- 15	85.
15- 20	112.
20- 25	132.
25- 30	146.
30- 35	152.
35- 40	152.
40- 45	146.
45- 50	136.
50- 55	122.
55- 60	106.
60- 65	88.
65- 70	71.
70- 75	52.
75- 80	35.
80- 85	20.
85- 90	6.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	72.
0- 20	268.
0- 30	546.
0- 40	851.
0- 50	1133.
0- 60	1361.
0- 70	1520.
0- 80	1607.
0- 90	1634.
0-100	1634.
0-110	1634.
0-120	1634.
0-130	1634.
0-140	1634.
0-150	1634.
0-160	1634.
0-170	1634.
0-180	1634.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	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	66	66	66	66	64	64	64	64	62	62	62	59	59	59	57	57	57	55
1	61	58	56	54	59	57	55	53	55	53	51	52	51	50	51	49	48	47
2	56	51	48	45	54	50	47	44	48	46	43	47	44	42	45	43	41	40
3	51	46	41	38	50	45	41	38	43	40	37	42	39	36	40	38	36	35
4	47	41	36	33	46	40	36	32	39	35	32	37	34	32	36	33	31	30
5	43	37	32	29	42	36	32	28	35	31	28	34	30	28	33	30	27	26
6	40	33	29	25	39	33	28	25	32	28	25	31	27	25	30	27	24	23
7	38	30	26	22	37	30	26	22	29	25	22	28	25	22	28	24	22	21
8	35	28	23	20	34	27	23	20	27	23	20	26	23	20	25	22	20	19
9	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17
10	31	24	20	17	30	24	19	17	23	19	17	22	19	17	22	19	17	16

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.