

REPORT NUMBER: ITL71737

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ISSUE DATE: 02/29/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FORMED WHITE PAINTED METAL REFLECTOR, FABRICATED WHITE PAINTED METAL PARABOLIC 31-CELL LOUVER. 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 = 33.0 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED = 9.17

REPORT IS BASED ON 2950 LUMENS PER LAMP.

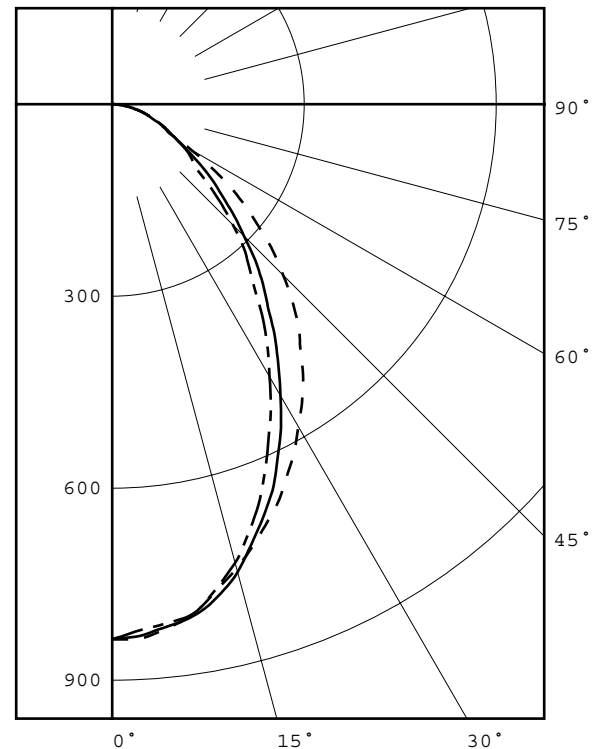
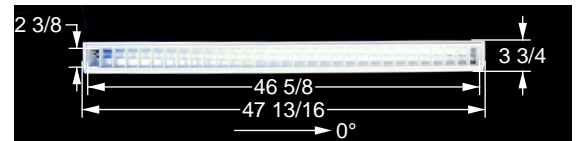
CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	836	836	836	836	836	
5	828	829	824	819	818	78
15	751	755	757	747	742	210
25	644	648	611	587	578	282
35	520	503	443	413	411	285
45	378	349	291	270	267	238
55	225	203	173	150	153	162
65	92	91	95	95	97	95
75	50	50	49	50	50	53
85	13	9	12	13	13	15
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	570	19.3	40.2	
0- 40	854	29.0	60.3	
0- 60	1254	42.5	88.5	
0- 90	1416	48.0	100.0	
90-180	0	0.0	0.0	
0-180	1416	48.0	100.0	

TOTAL LUMINAIRE EFFICIENCY = 48.0 %

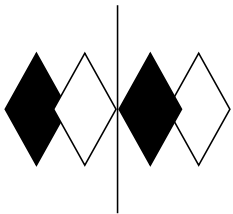
CIE TYPE - DIRECT  
PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.07 0.96  
SHIELDING ANGLES : 30 48  
LUMINOUS LENGTH : 46.625 2.375

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	7483.	5761.	5285.	
55	5491.	4222.	3734.	
65	3047.	3147.	3213.	
75	2704.	2650.	2704.	
85	2088.	1927.	2088.	



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

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



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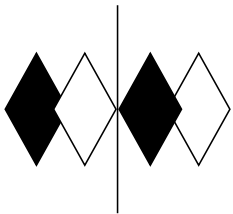
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	836	836	836	836	836
2.5	837	836	833	825	825
5.0	828	829	824	819	818
7.5	816	815	816	812	812
10.0	798	799	804	799	798
12.5	773	776	783	775	770
15.0	751	755	757	747	742
17.5	726	731	722	715	705
20.0	700	703	688	672	667
22.5	675	676	654	632	623
25.0	644	648	611	587	578
27.5	615	611	571	538	537
30.0	582	576	526	497	492
32.5	552	539	483	454	452
35.0	520	503	443	413	411
37.5	483	467	400	372	367
40.0	453	427	366	335	333
42.5	416	390	331	300	304
45.0	378	349	291	270	267
47.5	342	311	259	236	232
50.0	300	273	226	206	198
52.5	263	237	200	174	167
55.0	225	203	173	150	153
57.5	183	173	147	136	141
60.0	143	140	126	125	123
62.5	105	113	107	109	108
65.0	92	91	95	95	97
67.5	81	80	81	84	83
70.0	70	70	68	73	72
72.5	60	60	58	60	60
75.0	50	50	49	50	50
77.5	40	40	39	40	39
80.0	32	32	30	30	30
82.5	22	22	21	22	21
85.0	13	9	12	13	13
87.5	5	5	5	5	5
90.0	0	0	0	0	0



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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5-DEGREE

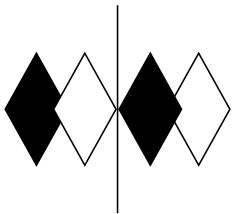
ZONAL LUMEN SUMMARY

0- 5	20.
5- 10	58.
10- 15	92.
15- 20	118.
20- 25	136.
25- 30	145.
30- 35	146.
35- 40	139.
40- 45	127.
45- 50	110.
50- 55	90.
55- 60	71.
60- 65	54.
65- 70	41.
70- 75	31.
75- 80	21.
80- 85	12.
85- 90	3.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	78.
0- 20	288.
0- 30	570.
0- 40	854.
0- 50	1092.
0- 60	1254.
0- 70	1349.
0- 80	1402.
0- 90	1416.
0-100	1416.
0-110	1416.
0-120	1416.
0-130	1416.
0-140	1416.
0-150	1416.
0-160	1416.
0-170	1416.
0-180	1416.



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