

REPORT NUMBER: ITL77261

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ISSUE DATE: 05/20/13

REVISED: 06/18/13

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS5-D1-4-FC-120-T8

LUMINAIRE: EXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND FABRICATED WHITE PAINTED FLAT METAL END CAPS, FORMED WHITE PAINTED METAL REFLECTOR AND SOCKET MOUNTING BRACKETS, EXTRUDED FROSTED ACRYLIC DIFFUSER. DIFFUSER FROSTED BOTH SIDES.

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

BALLAST: UNIVERSAL B232IUNV-C

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.

TOTAL REFLECTANCE OF PAINT = 89.3 %

MOUNTING: SURFACE/SUSPENDED

TOTAL INPUT WATTS = 31.9 AT 120.0 VOLTS

REPORT IS BASED ON 2950 LUMENS PER LAMP.

CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	730	730	730	730	730	
5	729	723	729	730	728	69
15	698	694	705	710	709	198
25	638	638	655	664	665	300
35	549	554	573	584	586	356
45	439	448	465	471	472	354
55	323	330	341	341	340	300
65	210	214	219	217	214	214
75	111	113	115	114	111	121
85	32	34	34	33	34	37
90	0	0	0	0	0	

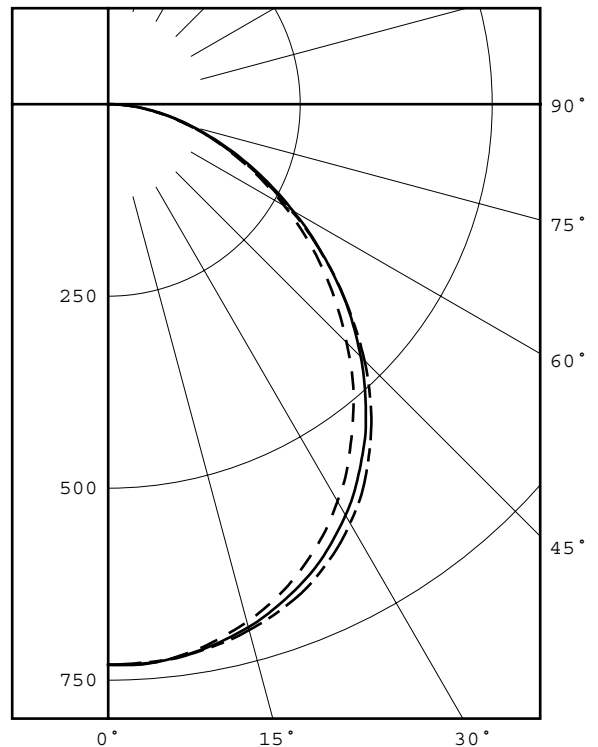
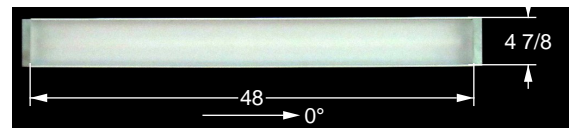
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	568	19.2	29.1	
0- 40	924	31.3	47.4	
0- 60	1579	53.5	80.9	
0- 90	1951	66.1	100.0	
90-180	0	0.0	0.0	
0-180	1951	66.1	100.0	

TOTAL LUMINAIRE EFFICIENCY = 66.1 %

CIE TYPE - DIRECT

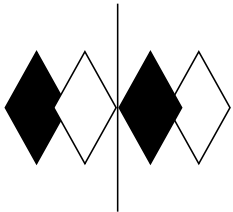
PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.22 1.28  
SHIELDING ANGLES : 90 90  
LUMINOUS LENGTH : 48.000 4.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
45	4112.	4356.	4422.	
55	3730.	3938.	3926.	
65	3291.	3433.	3354.	
75	2841.	2943.	2841.	
85	2432.	2584.	2584.	



LEGEND:  
0-deg -----  
45-deg \_\_\_\_\_  
90-deg - . - . - .

Checked       M KLOPF        
Approved       R BEATTIE        
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
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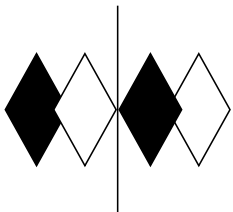
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CANDELA DISTRIBUTION  
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	730	730	730	730	730
2.5	730	725	731	732	729
5.0	729	723	729	730	728
7.5	724	719	725	728	726
10.0	717	712	720	723	721
12.5	708	704	713	717	716
15.0	698	694	705	710	709
17.5	686	683	695	701	701
20.0	672	669	683	691	691
22.5	656	655	670	678	680
25.0	638	638	655	664	665
27.5	619	620	637	647	649
30.0	597	600	618	629	630
32.5	575	578	597	608	610
35.0	549	554	573	584	586
37.5	523	529	549	559	560
40.0	497	503	522	531	533
42.5	469	476	494	502	503
45.0	439	448	465	471	472
47.5	410	419	435	440	439
50.0	381	390	405	407	406
52.5	352	360	373	374	374
55.0	323	330	341	341	340
57.5	294	300	310	308	308
60.0	265	271	278	276	274
62.5	237	242	248	247	243
65.0	210	214	219	217	214
67.5	183	188	191	188	186
70.0	158	162	164	162	160
72.5	135	136	138	136	135
75.0	111	113	115	114	111
77.5	89	92	93	91	91
80.0	69	71	72	70	70
82.5	50	51	52	51	51
85.0	32	34	34	33	34
87.5	16	17	17	17	18
90.0	0	0	0	0	0



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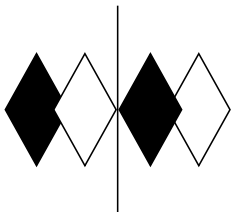
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5-DEGREE  
 ZONAL LUMEN SUMMARY

0- 5	17
5- 10	52
10- 15	84
15- 20	114
20- 25	140
25- 30	160
30- 35	175
35- 40	181
40- 45	181
45- 50	173
50- 55	160
55- 60	141
60- 65	119
65- 70	95
70- 75	72
75- 80	49
80- 85	28
85- 90	9

10-DEGREE  
 ZONAL LUMEN SUMMARY

0- 10	69
0- 20	268
0- 30	568
0- 40	924
0- 50	1278
0- 60	1579
0- 70	1793
0- 80	1913
0- 90	1951



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67	66	
1	72	69	66	64	70	67	65	63	65	63	61	62	60	59	60	58	57	56	
2	66	60	56	52	64	59	55	52	57	53	50	55	52	49	53	50	48	47	
3	60	53	48	44	58	52	47	43	50	46	43	48	45	42	47	44	41	40	
4	55	47	42	37	54	46	41	37	45	40	36	43	39	36	42	38	35	34	
5	51	42	36	32	49	42	36	32	40	35	32	39	35	31	38	34	31	30	
6	47	38	32	28	46	38	32	28	36	31	28	35	31	28	34	30	27	26	
7	44	35	29	25	42	34	29	25	33	28	25	32	28	24	31	27	24	23	
8	41	32	26	22	40	31	26	22	30	26	22	30	25	22	29	25	22	21	
9	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19	
10	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	17	

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.