

REPORT NUMBER: ITL70230

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ISSUE DATE: 10/19/11

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: 907D-01-X-4-X-MPL-X-120-T8

LUMINAIRE: EXTRUDED SEMI-DIFFUSE METAL HOUSING WITH CAST DIFFUSE METAL
END CAPS, FORMED TWO-PIECE WHITE-PAINTED METAL REFLECTOR, CLEAR
FLAT MICRO-PRISMATIC PLASTIC LENS. LENS PRISMS DOWN.

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

BALLAST: SYLVANIA QTP 1X32T8/UNV ISN-SC

MOUNTING: SUSPENDED

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.

TOTAL INPUT WATTS = 29.7 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	1000	1000	1000	1000	1000	
5	1003	1003	1002	996	997	95
15	977	982	994	1001	1005	280
25	905	922	958	986	993	440
35	793	838	895	905	902	538
45	548	551	537	512	497	414
55	243	233	222	222	231	210
65	112	125	123	117	118	121
75	68	78	74	71	75	78
85	34	34	32	31	27	33
90	0	0	0	0	0	

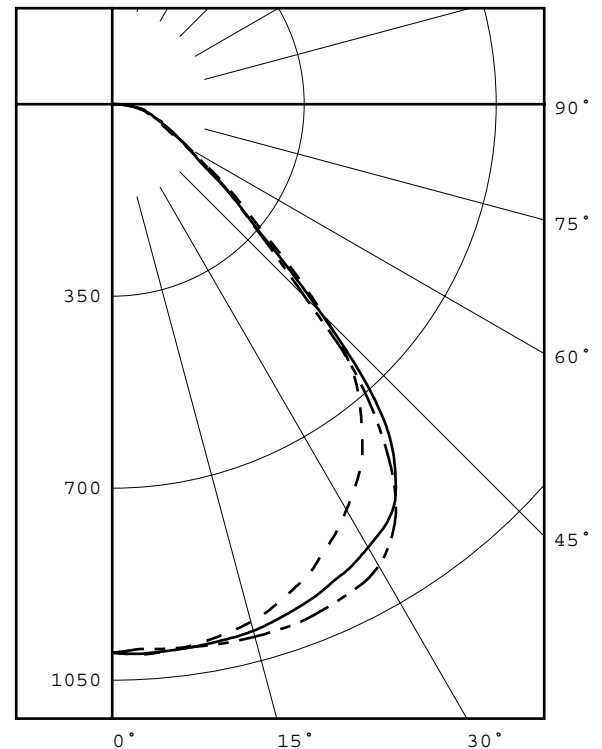
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	816	27.7	36.9	
0- 40	1354	45.9	61.3	
0- 60	1978	67.0	89.5	
0- 90	2210	74.9	100.0	
90-180	0	0.0	0.0	
0-180	2210	74.9	100.0	

TOTAL LUMINAIRE EFFICIENCY = 74.9 %

CIE TYPE - DIRECT

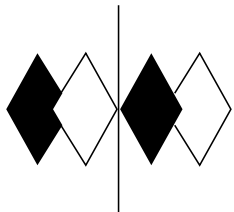
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.26 1.39
SHIELDING ANGLES : 90 90
LUMINOUS LENGTH : 48.125 5.563

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	4487.	4397.	4070.	
55	2453.	2241.	2332.	
65	1534.	1685.	1617.	
75	1521.	1656.	1678.	
85	2259.	2126.	1794.	



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.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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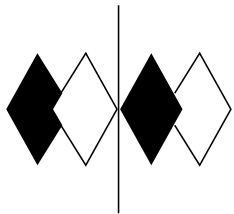
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1000	1000	1000	1000	1000
2.5	1004	1004	1003	996	995
5.0	1003	1003	1002	996	997
7.5	999	1000	1001	998	999
10.0	993	996	999	999	1002
12.5	986	990	997	1000	1004
15.0	977	982	994	1001	1005
17.5	964	972	987	1000	1005
20.0	947	957	979	998	1004
22.5	930	940	970	993	999
25.0	905	922	958	986	993
27.5	882	901	948	979	986
30.0	854	883	933	968	972
32.5	825	859	918	942	944
35.0	793	838	895	905	902
37.5	748	810	848	850	835
40.0	700	770	784	757	748
42.5	640	700	678	650	644
45.0	548	551	537	512	497
47.5	444	417	419	413	397
50.0	353	335	329	337	325
52.5	293	276	275	275	275
55.0	243	233	222	222	231
57.5	191	196	183	184	193
60.0	159	162	160	156	165
62.5	130	143	139	137	139
65.0	112	125	123	117	118
67.5	99	109	108	101	106
70.0	90	99	92	90	98
72.5	80	90	82	80	81
75.0	68	78	74	71	75
77.5	63	66	63	62	63
80.0	59	54	55	54	52
82.5	43	45	44	45	40
85.0	34	34	32	31	27
87.5	19	21	18	16	13
90.0	0	0	0	0	0



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	24.
5- 10	71.
10- 15	118.
15- 20	162.
20- 25	203.
25- 30	238.
30- 35	265.
35- 40	273.
40- 45	242.
45- 50	171.
50- 55	121.
55- 60	88.
60- 65	68.
65- 70	54.
70- 75	44.
75- 80	34.
80- 85	24.
85- 90	9.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	95.
0- 20	376.
0- 30	816.
0- 40	1354.
0- 50	1768.
0- 60	1978.
0- 70	2099.
0- 80	2177.
0- 90	2210.
0-100	2210.
0-110	2210.
0-120	2210.
0-130	2210.
0-140	2210.
0-150	2210.
0-160	2210.
0-170	2210.
0-180	2210.



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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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	76	76	76	75
1	83	80	77	75	81	78	76	73	75	73	71	72	70	69	69	68	67	65
2	77	71	67	63	75	70	66	63	67	64	61	65	62	60	63	61	59	57
3	71	64	59	55	69	63	58	54	61	57	53	59	55	52	57	54	51	50
4	66	58	52	48	64	57	51	47	55	50	47	53	49	46	52	48	46	44
5	61	52	46	42	59	52	46	42	50	45	41	49	44	41	47	44	41	39
6	57	48	42	37	55	47	41	37	46	41	37	45	40	37	43	39	36	35
7	53	44	38	34	52	43	37	33	42	37	33	41	36	33	40	36	33	31
8	49	40	34	30	48	40	34	30	39	34	30	38	33	30	37	33	30	28
9	46	37	31	28	45	37	31	27	36	31	27	35	30	27	34	30	27	26
10	44	34	29	25	43	34	29	25	33	28	25	33	28	25	32	28	25	24

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.