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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL77189
ISSUE DATE: 06/03/13
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 2-5153-124

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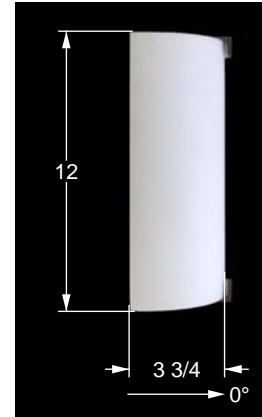
LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING PLATE/REFLECTOR, FROSTED GLASS DIFFUSER WITH TRANSLUCENT WHITE FINISHED INTERIOR, TRANSLUCENT WHITE ACRYLIC TOP AND BOTTOM END CAPS, FABRICATED SEMI-SPECULAR METAL DIFFUSER MOUNTING BRACKETS. BALLAST IS EXPOSED AND CENTERED AT TOP OF OPTICAL COMPARTMENT.

LAMP: ONE 26-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENT, SYLVANIA CF26DD/E/830, VERTICAL BASE-DOWN POSITION.

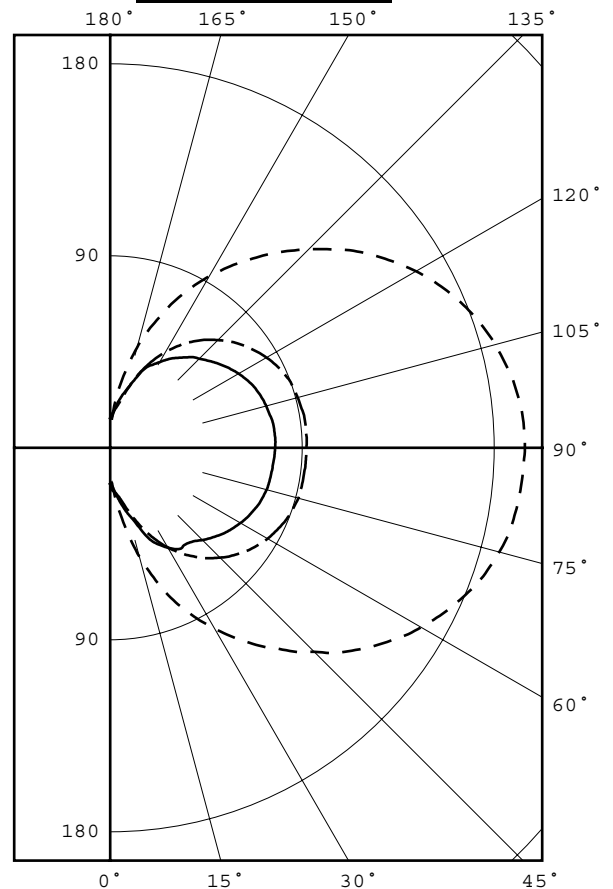
BALLAST: FULHAM RH3-UNV-226-C
TOTAL INPUT WATTS = 28.2 AT 120.0 VOLTS
TOTAL REFLECTANCE OF PAINT = 88.2 %
MOUNTING: WALL

NOTE: ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

REPORT IS BASED ON 1710 LUMENS PER LAMP.



CANDELA DISTRIBUTION						FLUX
0.0	45.0	90.0	135.0	180.0		
0	17	17	17	17	17	
5	21	21	20	20	21	2
15	53	50	32	28	29	11
25	84	75	49	35	46	26
35	111	92	58	43	61	44
45	135	110	61	53	73	65
55	159	127	68	60	82	86
65	177	142	73	64	88	104
75	189	151	76	65	91	117
85	194	154	77	63	92	122
90	194	155	77	64	92	
95	194	155	77	64	92	123
105	187	150	76	63	91	116
115	174	140	72	60	88	103
125	155	125	66	55	81	84
135	132	107	59	48	71	63
145	106	88	51	40	59	42
155	79	67	42	32	44	24
165	49	43	27	25	26	10
175	18	18	16	16	17	2
180	14	14	14	14	14	



LEGEND:
0-deg -----
90-deg =====
180-deg -----

ZONAL ZONE	LUMEN LUMENS	%LAMP	%FIXT
0- 30	39	2.3	3.4
0- 40	83	4.9	7.3
0- 60	234	13.7	20.5
0- 90	578	33.8	50.5
90-120	342	20.0	29.9
90-130	426	24.9	37.3
90-150	531	31.0	46.4
90-180	566	33.1	49.5
0-180	1143	66.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 66.9 %

CIE TYPE - GENERAL DIFFUSE

Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	17	17	17	17	17	17	17	17	17
5.0	21	21	21	21	20	20	20	21	21
10.0	35	36	33	30	25	23	23	24	23
15.0	53	54	50	40	32	28	28	28	29
20.0	69	68	63	52	40	33	32	34	37
25.0	84	81	75	62	49	40	35	40	46
30.0	98	93	82	70	54	47	39	48	54
35.0	111	105	92	74	58	53	43	55	61
40.0	123	117	101	80	58	59	48	61	67
45.0	135	128	110	86	61	61	53	66	73
50.0	148	140	119	92	65	65	57	71	78
55.0	159	150	127	98	68	68	60	75	82
60.0	168	159	135	103	71	71	63	78	85
65.0	177	167	142	108	73	74	64	80	88
70.0	184	173	147	111	75	76	65	82	90
75.0	189	178	151	114	76	78	65	83	91
80.0	192	181	153	116	76	78	65	83	92
85.0	194	183	154	116	77	78	63	84	92
90.0	194	183	155	117	77	78	64	84	92
95.0	194	183	155	117	77	79	64	84	92
100.0	191	180	153	116	77	82	64	84	92
105.0	187	176	150	114	76	82	63	84	91
110.0	181	171	145	111	74	79	62	82	90
115.0	174	164	140	107	72	76	60	80	88
120.0	166	156	133	102	70	72	58	77	85
125.0	155	147	125	97	66	67	55	74	81
130.0	144	136	116	90	63	62	52	70	77
135.0	132	125	107	83	59	57	48	65	71
140.0	119	113	97	77	55	52	44	59	66
145.0	106	101	88	70	51	46	40	53	59
150.0	93	89	77	63	46	40	36	45	52
155.0	79	76	67	55	42	34	32	38	44
160.0	64	63	56	46	34	29	29	31	35
165.0	49	48	43	35	27	25	25	25	26
170.0	33	33	30	26	22	20	20	21	20
175.0	18	19	18	18	16	16	16	17	17
180.0	14	14	14	14	14	14	14	14	14



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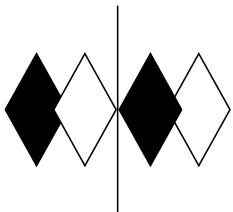
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	2
10- 15	4
15- 20	7
20- 25	11
25- 30	15
30- 35	20
35- 40	25
40- 45	30
45- 50	35
50- 55	40
55- 60	45
60- 65	50
65- 70	54
70- 75	57
75- 80	60
80- 85	61
85- 90	62
90- 95	62
95-100	61
100-105	60
105-110	57
110-115	54
115-120	49
120-125	45
125-130	39
130-135	34
135-140	29
140-145	23
145-150	18
150-155	14
155-160	10
160-165	6
165-170	3
170-175	2
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	2
0- 20	13
0- 30	39
0- 40	83
0- 50	149
0- 60	234
0- 70	338
0- 80	455
0- 90	578
0-100	700
0-110	817
0-120	920
0-130	1004
0-140	1066
0-150	1108
0-160	1132
0-170	1142
0-180	1143



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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	72	72	72	72	66	66	66	66	56	56	56	46	46	46	38	38	38	34	
1	62	57	53	50	56	53	49	46	44	41	38	35	33	31	28	26	25	21	
2	55	48	42	38	50	44	39	35	36	32	29	29	26	23	22	20	18	15	
3	49	41	35	30	45	37	32	27	31	26	23	24	21	18	19	16	14	11	
4	44	36	29	24	40	32	27	22	27	22	18	21	17	15	16	13	11	8	
5	40	31	25	20	37	28	23	18	23	19	15	18	15	12	14	11	9	7	
6	37	28	21	17	33	25	20	15	21	16	13	16	13	10	12	10	7	5	
7	34	25	19	14	31	23	17	13	18	14	11	15	11	9	11	8	6	4	
8	31	22	16	12	29	20	15	11	17	12	9	13	10	7	10	7	5	4	
9	29	20	15	11	26	18	13	10	15	11	8	12	9	6	9	7	5	3	
10	27	18	13	9	25	17	12	9	14	10	7	11	8	6	9	6	4	3	

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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.