

REPORT NUMBER: ITL77176  
ISSUE DATE: 06/18/13  
PREPARED FOR: OXYGEN LIGHTING  
CATALOG NUMBER: 2-5107-24

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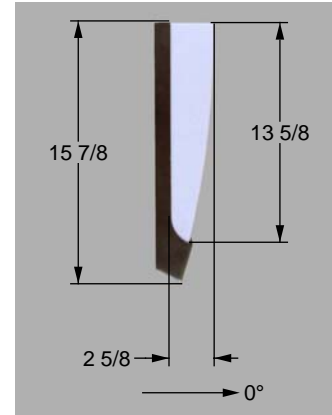
LUMINAIRE: FABRICATED SEMI-DIFFUSE METAL HOUSING, FORMED WHITE PAINTED METAL REFLECTOR, FORMED PERFORATED WHITE PAINTED METAL TOP, TRANSLUCENT WHITE ACRYLIC DIFFUSER. BALLAST IS EXPOSED AND OFFSET AT THE TOP OF THE OPTICAL COMPARTMENT.

LAMP: ONE 24-WATT SINGLE ENDED TWIN TUBE FLUORESCENT, SYLVANIA FT24DL/841, TILTED 3-DEGREES FROM VERTICAL BASE-DOWN POSITION.

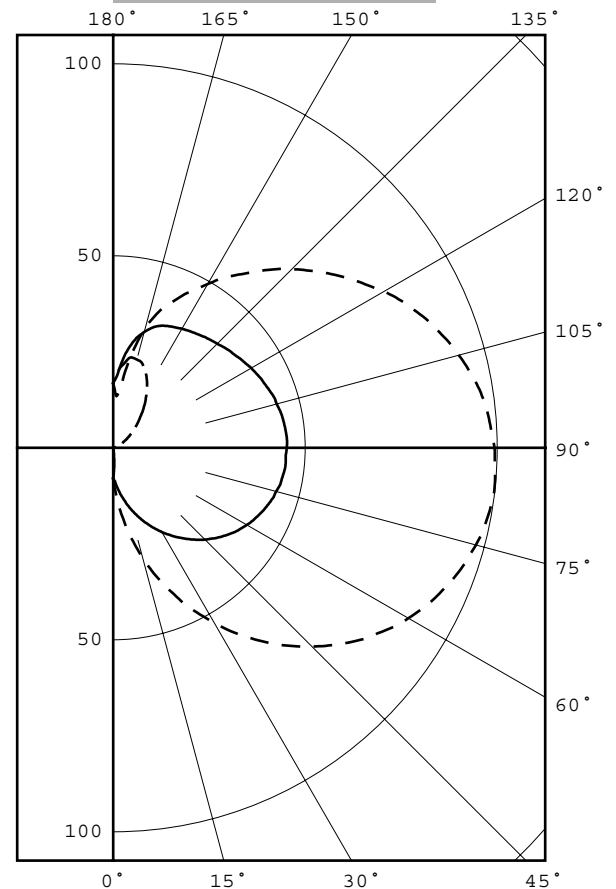
BALLAST: FULHAM RH3-UNV-226-C  
TOTAL INPUT WATTS = 24.6 AT 120.0 VOLTS  
TOTAL REFLECTANCE OF PAINT = 75.6 %

MOUNTING: WALL  
NOTE: ACRYLIC MATERIAL INFORMATION PROVIDED BY CLIENT.

REPORT IS BASED ON 1800 LUMENS PER LAMP.



CANDELA DISTRIBUTION						FLUX
0.0	45.0	90.0	135.0	180.0		
0	8	8	8	8	8	
5	15	14	10	5	3	1
15	30	28	16	5	0	5
25	45	43	22	9	0	11
35	60	57	28	14	0	21
45	73	70	34	17	0	31
55	84	81	38	21	0	42
65	93	89	42	23	0	51
75	98	94	44	26	0	57
85	100	96	45	27	0	61
90	99	95	45	27	0	
95	98	94	45	27	0	60
105	93	89	44	27	1	56
115	86	83	43	26	2	49
125	76	74	40	26	5	41
135	66	65	38	27	9	33
145	55	56	37	29	15	25
155	44	47	35	30	21	17
165	32	35	31	30	24	9
175	14	17	21	22	21	2
180	17	17	17	17	17	



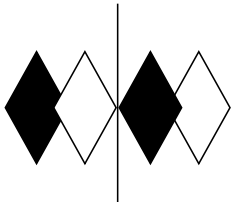
LEGEND:  
0-deg -----  
90-deg =====  
180-deg -----

ZONAL ZONE	LUMEN LUMENS	%LAMP	%FIXT
0- 30	17	1.0	3.0
0- 40	38	2.1	6.6
0- 60	110	6.1	19.4
0- 90	279	15.5	48.9
90-120	165	9.2	29.0
90-130	206	11.5	36.2
90-150	264	14.7	46.3
90-180	291	16.2	51.1
0-180	570	31.7	100.0

TOTAL LUMINAIRE EFFICIENCY = 31.7 %

CIE TYPE - GENERAL DIFFUSE

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



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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](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

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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	8	8	8	8	8	8	8	8	8
5.0	15	14	14	12	10	8	5	4	3
10.0	22	22	21	18	13	8	5	2	0
15.0	30	30	28	23	16	10	5	2	0
20.0	38	39	36	29	19	11	7	3	0
25.0	45	47	43	34	22	14	9	4	0
30.0	53	55	50	40	25	17	12	5	0
35.0	60	62	57	45	28	20	14	6	0
40.0	67	70	64	50	31	22	16	7	0
45.0	73	76	70	54	34	25	17	8	0
50.0	79	83	76	58	36	28	19	8	0
55.0	84	88	81	62	38	30	21	9	0
60.0	89	93	85	65	40	32	22	10	0
65.0	93	97	89	68	42	34	23	10	0
70.0	96	100	91	70	43	35	25	11	0
75.0	98	102	94	72	44	37	26	11	0
80.0	99	104	95	73	45	38	26	11	0
85.0	100	105	96	73	45	39	27	12	0
90.0	99	104	95	72	45	39	27	12	0
95.0	98	103	94	71	45	39	27	12	0
100.0	96	101	92	70	45	39	27	12	0
105.0	93	98	89	67	44	38	27	12	1
110.0	90	94	86	65	43	38	27	12	1
115.0	86	90	83	62	43	37	26	13	2
120.0	81	85	79	60	42	37	26	13	3
125.0	76	80	74	56	40	36	26	14	5
130.0	71	75	69	53	39	36	27	15	7
135.0	66	69	65	50	38	35	27	17	9
140.0	60	63	60	47	38	35	28	19	12
145.0	55	58	56	44	37	35	29	21	15
150.0	49	52	51	41	36	34	30	23	18
155.0	44	47	47	39	35	34	30	25	21
160.0	39	42	42	35	34	33	30	27	23
165.0	32	35	35	30	31	31	30	28	24
170.0	22	24	25	25	27	28	27	25	24
175.0	14	15	17	19	21	22	22	21	21
180.0	17	17	17	17	17	17	17	17	17



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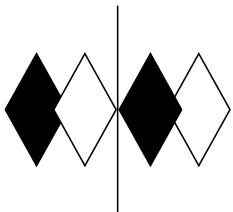
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5-DEGREE  
 ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	2
15- 20	3
20- 25	5
25- 30	7
30- 35	9
35- 40	12
40- 45	14
45- 50	17
50- 55	20
55- 60	22
60- 65	24
65- 70	26
70- 75	28
75- 80	29
80- 85	30
85- 90	30
90- 95	30
95-100	30
100-105	29
105-110	27
110-115	26
115-120	24
120-125	22
125-130	20
130-135	17
135-140	15
140-145	13
145-150	11
150-155	9
155-160	7
160-165	5
165-170	3
170-175	2
175-180	0

10-DEGREE  
 ZONAL LUMEN SUMMARY

0- 10	1
0- 20	6
0- 30	17
0- 40	38
0- 50	69
0- 60	110
0- 70	161
0- 80	218
0- 90	279
0-100	339
0-110	395
0-120	444
0-130	485
0-140	518
0-150	543
0-160	559
0-170	568
0-180	570



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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	34	34	34	34	31	31	31	31	26	26	26	22	22	22	17	17	17	15
1	29	27	25	23	27	25	23	22	20	19	18	16	15	15	13	12	11	9
2	26	23	20	18	23	21	18	16	17	15	14	13	12	11	10	9	8	7
3	23	19	16	14	21	18	15	13	14	12	11	11	10	8	9	7	6	5
4	21	17	14	11	19	15	13	10	12	10	9	10	8	7	7	6	5	4
5	19	15	12	9	17	13	11	9	11	9	7	9	7	6	6	5	4	3
6	17	13	10	8	16	12	9	7	10	8	6	8	6	5	6	4	3	2
7	16	12	9	7	15	11	8	6	9	7	5	7	5	4	5	4	3	2
8	15	10	8	6	13	10	7	5	8	6	4	6	5	3	5	3	2	2
9	14	9	7	5	12	9	6	5	7	5	4	6	4	3	4	3	2	1
10	13	9	6	4	12	8	6	4	6	5	3	5	4	3	4	3	2	1

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.