

REPORT NUMBER: ITL77197  
ISSUE DATE: 06/17/13  
PREPARED FOR: OXYGEN LIGHTING  
CATALOG NUMBER: 2-6114-24

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LUMINAIRE: FORMED SPECULAR METAL HOUSING WITH WHITE PAINTED BALLAST/LAMP MOUNTING SURFACE, FROSTED GLASS DIFFUSER WITH TRANSLUCENT WHITE FINISHED INTERIOR. BALLAST IS EXPOSED IN THE OPTICAL COMPARTMENT SYMMETRICALLY ALIGNED ALONG THE 0-DEGREE PLANE.

LAMPS: TWO 26-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENTS, SYLVANIA CF26DD/E/830, LAMPS HORIZONTAL WITH TUBES VERTICAL.

TOTAL INPUT WATTS = 41.6 AT 120.0 VOLTS

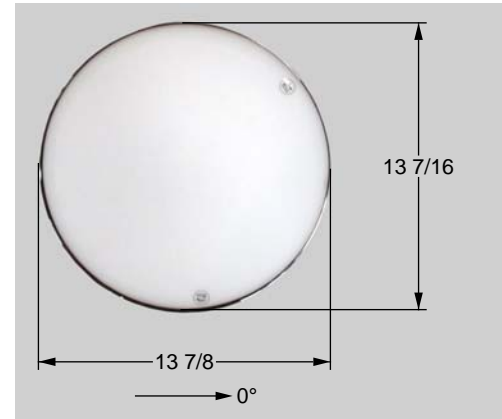
TOTAL REFLECTANCE OF PAINT = 79.0 %

MOUNTING: SURFACE

BALLAST: ANTRON ELECTRONICS CSS-UV42PS

REPORT IS BASED ON 1710 LUMENS PER LAMP.

\*\* (EXPLANATION FOLLOWS) \*\*



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	207	207	207	207	207	
5	206	207	206	207	206	20
15	200	200	200	200	199	56
25	187	187	187	187	187	86
35	167	168	168	169	168	105
45	143	143	144	145	144	111
55	115	115	116	117	117	104
65	85	85	86	87	88	85
75	54	54	55	57	57	58
85	24	24	26	27	28	29
90	14	14	16	18	18	
95	9	10	11	12	13	13
105	6	7	8	9	9	8
115	4	5	6	6	7	6
125	2	3	3	4	4	3
135	1	1	2	2	2	1
145	0	1	1	1	1	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

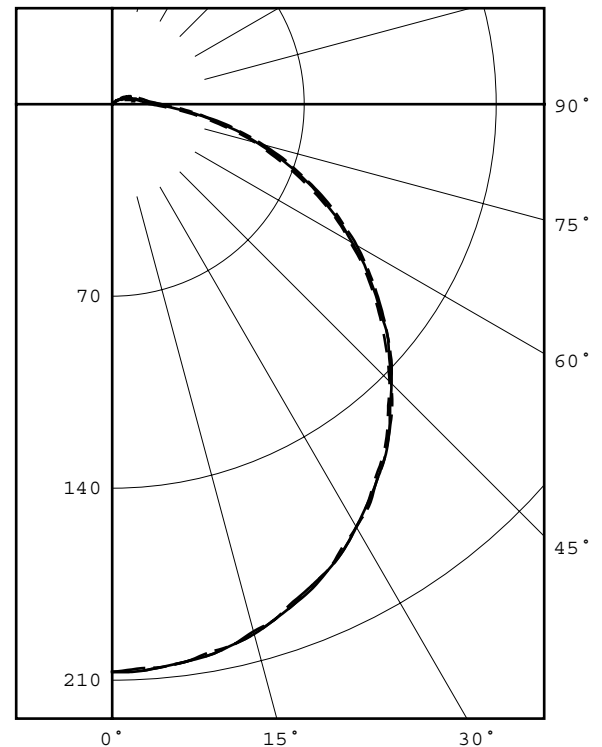
ZONAL ZONE	LUMEN LUMENS	SUMMARY LUMENS	%LAMP	%FIXT
0- 30		162	4.7	23.6
0- 40		267	7.8	39.0
0- 60		482	14.1	70.3
0- 90		655	19.2	95.4
90-120		27	0.8	3.9
90-130		30	0.9	4.3
90-150		31	0.9	4.6
90-180		31	0.9	4.6
0-180		686	20.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 20.1 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.28 1.28



LEGEND:

0-deg - - - - -  
45-deg = = = = =  
90-deg - - - - -

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
0.0	207	207	207	207	207
5.0	206	207	206	207	206
10.0	204	204	204	204	203
15.0	200	200	200	200	199
20.0	194	194	194	195	193
25.0	187	187	187	187	187
30.0	178	178	178	179	178
35.0	167	168	168	169	168
40.0	156	156	157	158	157
45.0	143	143	144	145	144
50.0	129	129	131	131	131
55.0	115	115	116	117	117
60.0	100	100	101	103	103
65.0	85	85	86	87	88
70.0	69	69	71	72	72
75.0	54	54	55	57	57
80.0	38	39	40	41	42
85.0	24	24	26	27	28
90.0	14	14	16	18	18
95.0	9	10	11	12	13
100.0	8	8	9	10	11
105.0	6	7	8	9	9
110.0	5	6	7	8	8
115.0	4	5	6	6	7
120.0	3	4	4	5	5
125.0	2	3	3	4	4
130.0	2	2	2	3	3
135.0	1	1	2	2	2
140.0	1	1	1	1	1
145.0	0	1	1	1	1
150.0	0	0	0	0	0
155.0	0	0	0	0	0
160.0	0	0	0	0	0
165.0	0	0	0	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	5
5- 10	15
10- 15	24
15- 20	32
20- 25	40
25- 30	46
30- 35	51
35- 40	54
40- 45	56
45- 50	55
50- 55	53
55- 60	50
60- 65	46
65- 70	40
70- 75	33
75- 80	25
80- 85	18
85- 90	11
90- 95	7
95-100	5
100-105	5
105-110	4
110-115	3
115-120	2
120-125	2
125-130	1
130-135	1
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

### 10-DEGREE ZONAL LUMEN SUMMARY

0- 10	20
0- 20	76
0- 30	162
0- 40	267
0- 50	378
0- 60	482
0- 70	568
0- 80	626
0- 90	655
0-100	668
0-110	676
0-120	682
0-130	685
0-140	686
0-150	686
0-160	686
0-170	686
0-180	686



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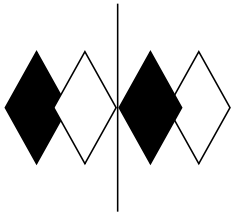
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	24	24	24	24	23	23	23	23	22	22	22	21	21	21	20	20	20	19
1	21	20	19	18	21	20	19	18	19	18	17	18	17	17	17	16	16	15
2	19	18	16	15	19	17	16	15	16	15	14	15	14	14	15	14	13	13
3	18	15	14	12	17	15	13	12	14	13	12	13	12	11	13	12	11	11
4	16	13	12	10	15	13	11	10	13	11	10	12	11	10	11	10	9	9
5	15	12	10	9	14	12	10	9	11	10	8	11	9	8	10	9	8	8
6	14	11	9	8	13	11	9	8	10	9	7	10	8	7	9	8	7	7
7	13	10	8	7	12	10	8	7	9	8	7	9	7	6	8	7	6	6
8	12	9	7	6	11	9	7	6	8	7	6	8	7	6	8	7	6	5
9	11	8	6	5	11	8	6	5	8	6	5	7	6	5	7	6	5	5
10	10	8	6	5	10	7	6	5	7	6	5	7	6	5	7	5	5	4

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.



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ADDENDUM

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The compact fluorescent lamps of the type used in this report may require special attention in photometry and luminaire application. Specifically, the lamps may generate lower flux output when operated in the horizontal position than when operated in the vertical base-up position. Unfortunately, at the time of this report, only the vertical flux output (lumen) rating is available from the lamp manufacturer. It is critical to note that if the lamp produces less lumens when in a horizontal position than when it is in a vertical position, the horizontal lamp calibration will yield higher luminaire candela and efficiency than a vertical lamp calibration. When applying the vertical lamp lumen rating to a report for a luminaire with a horizontal lamp(s) and using a horizontal lamp calibration, the report will show higher candela values than what the luminaire actually produced (since a horizontal lamp produces lower flux). For a report which was generated using a horizontal lamp calibration, any application calculations should use the actual flux output (lumens) from a horizontal lamp -- at this time, no such published lumen figures are available. The published lamp lumen rating given on this report is for a vertical base-up lamp. The lamp calibration for this report was performed with the lamp(s) in the same orientation as when the lamp(s) is/are in the luminaire.

CFL.DIS