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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

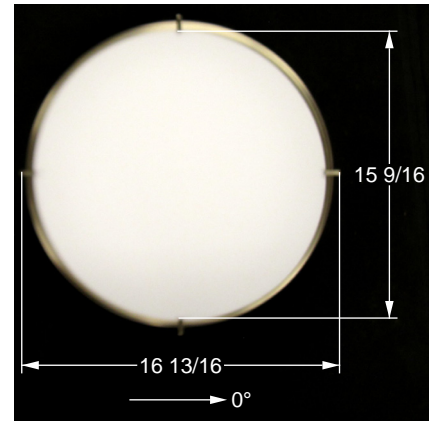
REPORT NUMBER: ITL80579
ISSUE DATE: 02/19/14
PREPARED FOR: OXYGEN LIGHTING
CATALOG NUMBER: 2-699-24

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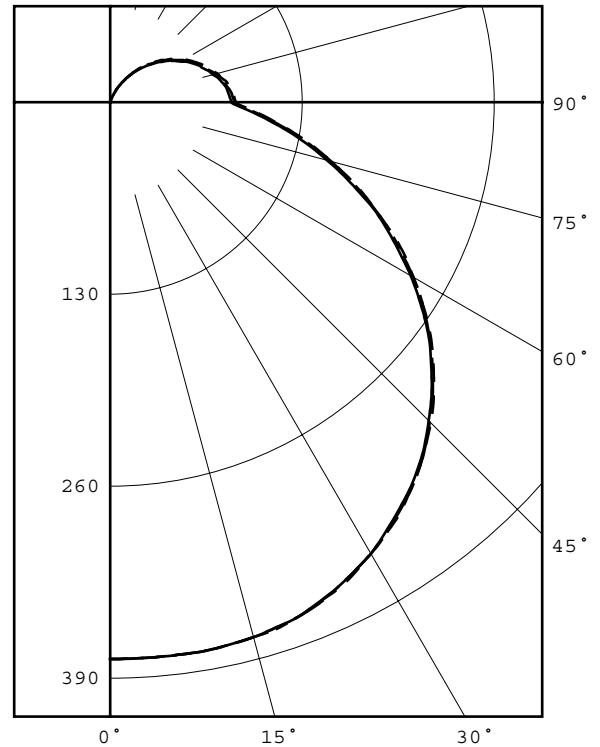
LUMINAIRE: FORMED SEMI-DIFFUSE METAL HOUSING WITH WHITE PAINTED OPTICAL COMPARTMENT, FORMED SEMI-DIFFUSE METAL TRIM RING WITH 4 CAST SEMI-DIFFUSE METAL POSTS, TRANSLUCENT WHITE ACRYLIC DIFFUSER. BALLAST IS EXPOSED IN THE CENTER OF THE OPTICAL COMPARTMENT.
LAMP: ONE 22-WATT T-5 CIRCULAR FLUORESCENT, SYLVANIA FPC22/830, RATED 1800 LUMENS, HORIZONTAL POSITION. ONE 40-WATT T-5 CIRCULAR FLUORESCENT, SYLVANIA FPC40/830, RATED 3200 LUMENS, HORIZONTAL POSITION.

BALLAST: FULHAM RHA-UNV-242-C
TOTAL INPUT WATTS = 52.5 AT 120.0 VOLTS
TOTAL REFLECTANCE OF PAINT = 84.1 %
MOUNTING: SURFACE

NOTE: DIFFUSER MATERIAL INFORMATION PROVIDED BY CLIENT.
REPORT IS BASED ON 5000 TOTAL LAMP LUMENS.



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	377	377	377	377	377	
5	377	377	377	377	377	36
15	375	375	375	375	375	106
25	364	363	363	363	363	168
35	341	340	339	340	340	213
45	307	306	305	305	306	236
55	263	261	261	261	262	234
65	211	209	208	208	210	207
75	155	153	152	152	155	162
85	104	102	101	101	103	112
90	85	83	82	82	84	
95	83	81	80	80	82	88
105	75	73	72	72	74	77
115	64	63	62	62	63	62
125	51	50	49	49	50	45
135	36	36	35	35	36	28
145	21	21	21	21	21	13
155	8	8	8	8	8	4
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0



LEGEND:
0-deg - - - - -
45-deg = = = = =
90-deg - - - - -

ZONAL ZONE	LUMEN SUMMARY LUMENS	%LAMP	%FIXT
0- 30	310	6.2	17.3
0- 40	523	10.5	29.2
0- 60	992	19.8	55.4
0- 90	1473	29.5	82.3
90-120	227	4.5	12.7
90-130	271	5.4	15.2
90-150	313	6.3	17.5
90-180	317	6.3	17.7
0-180	1790	35.8	100.0

TOTAL LUMINAIRE EFFICIENCY = 35.8 %

CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.39 1.39

Checked M KLOPF
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	377	377	377	377	377
5.0	377	377	377	377	377
10.0	377	377	377	377	377
15.0	375	375	375	375	375
20.0	371	371	371	371	371
25.0	364	363	363	363	363
30.0	353	353	353	353	353
35.0	341	340	339	340	340
40.0	325	324	324	324	325
45.0	307	306	305	305	306
50.0	286	285	284	284	285
55.0	263	261	261	261	262
60.0	237	236	235	235	237
65.0	211	209	208	208	210
70.0	183	181	180	180	182
75.0	155	153	152	152	155
80.0	129	126	126	126	128
85.0	104	102	101	101	103
90.0	85	83	82	82	84
95.0	83	81	80	80	82
100.0	80	78	77	77	78
105.0	75	73	72	72	74
110.0	70	68	67	67	68
115.0	64	63	62	62	63
120.0	58	57	55	56	57
125.0	51	50	49	49	50
130.0	44	43	42	42	43
135.0	36	36	35	35	36
140.0	29	29	28	28	28
145.0	21	21	21	21	21
150.0	14	14	14	14	14
155.0	8	8	8	8	8
160.0	3	3	3	3	3
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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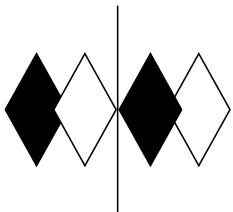
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	27
10- 15	45
15- 20	61
20- 25	77
25- 30	91
30- 35	102
35- 40	111
40- 45	117
45- 50	119
50- 55	119
55- 60	115
60- 65	108
65- 70	99
70- 75	87
75- 80	75
80- 85	62
85- 90	50
90- 95	45
95-100	43
100-105	40
105-110	37
110-115	33
115-120	29
120-125	24
125-130	20
130-135	16
135-140	12
140-145	8
145-150	5
150-155	3
155-160	1
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	36
0- 20	142
0- 30	310
0- 40	523
0- 50	759
0- 60	992
0- 70	1199
0- 80	1361
0- 90	1473
0-100	1561
0-110	1638
0-120	1700
0-130	1745
0-140	1772
0-150	1786
0-160	1790
0-170	1790
0-180	1790



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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	41	41	41	41	39	39	39	39	36	36	36	33	33	33	31	31	31	29	
1	37	35	33	31	35	33	31	30	30	29	28	28	27	26	26	25	24	23	
2	33	30	27	24	31	28	26	24	26	24	22	24	22	21	22	21	19	18	
3	30	26	22	20	28	25	22	19	23	20	18	21	19	17	19	17	16	15	
4	27	22	19	17	26	22	19	16	20	17	15	18	16	14	17	15	13	12	
5	25	20	17	14	24	19	16	14	18	15	13	16	14	12	15	13	12	11	
6	23	18	15	12	22	17	14	12	16	13	11	15	12	11	14	12	10	9	
7	21	16	13	11	20	15	12	10	14	12	10	13	11	9	12	10	9	8	
8	20	15	11	9	19	14	11	9	13	11	9	12	10	8	11	9	8	7	
9	18	13	10	8	17	13	10	8	12	9	8	11	9	7	10	8	7	6	
10	17	12	9	7	16	12	9	7	11	9	7	10	8	7	10	8	6	6	

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.