



IES INDOOR REPORT
PHOTOMETRIC FILENAME : ITL53820.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE]07/14/03
 [TEST]ITL53820
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFAC]LEXALITE INTERNATIONAL CORPORATION
 [LUMCAT]MODEL 812
 [LUMINAIRE]CLEAR ACRYLIC REFLECTOR WITH LINEAR EXTERIOR PRISMS,
 [MORE]FABRICATED WHITE PAINTED METAL UPPER MOUNTING COLLAR, OPEN
 [MORE]BOTTOM. CENTER OF LAMP TUBES LOCATED 4.5" UP FROM
 [MORE]REFLECTOR BOTTOM.
 [LAMP]ONE 42-WATT TRIPLE 'U' TUBE COMPACT FLUORESCENT, PHILIPS PL-T
 [MORE]42W/35/4P, VERTICAL BASE-UP POSITION.
 [BALLAST]NATIONAL NKB421102
 [_MOUNTING]SUSPENDED
 [OTHER]TOTAL INPUT WATTS= 46.6 AT 120.0 VOLTS

CHARACTERISTICS

Total Rated Lamp Lumens	3200
Total Luminaire Efficiency	95.8 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.68
Spacing Criteria (90-270)	1.34
Spacing Criteria (Diagonal)	1.76
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.04 ft (Diameter)
Luminous Width (90-270)	1.04 ft (Diameter)
Luminous Height	0.56 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6715	7856	4924
55	5368	6386	3981
65	3718	4326	3342
75	1637	1431	1472
85	2219	1841	2038

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	629	629	629	629	629
2.5	640	639	636	633	632
5.0	662	660	653	645	641
7.5	686	683	676	661	653
10.0	704	703	694	674	661
12.5	705	706	699	668	650
15.0	694	699	693	654	624
17.5	684	693	689	643	599
20.0	679	692	692	637	581
22.5	677	696	700	637	568
25.0	682	706	714	642	559
27.5	687	716	730	648	553
30.0	695	728	747	655	551
32.5	702	740	765	663	548
35.0	707	749	780	669	543
37.5	705	751	787	670	534
40.0	691	742	783	661	517
42.5	665	720	765	642	492
45.0	630	689	737	616	462
47.5	594	652	701	584	434
50.0	557	614	659	550	406
52.5	519	574	617	515	380
55.0	480	531	571	478	356
57.5	441	486	524	443	339
60.0	394	437	473	405	318
62.5	350	388	421	367	295
65.0	306	336	356	318	275
67.5	252	270	280	259	248
70.0	168	181	182	175	180
72.5	116	114	112	113	118
75.0	119	112	104	105	107
77.5	123	115	107	108	113
80.0	128	119	109	111	117
82.5	131	121	111	114	121
85.0	135	124	112	116	124
87.5	137	127	115	119	127
90.0	140	129	116	121	130
92.5	144	131	118	123	134
95.0	144	133	120	125	137
97.5	145	133	121	126	138
100.0	145	133	121	126	140
102.5	143	132	120	125	138
105.0	140	129	118	122	137
107.5	135	125	114	119	132
110.0	130	120	110	116	129
112.5	124	115	105	112	124
115.0	117	109	99	107	119
117.5	111	102	93	102	113
120.0	102	95	87	96	106
122.5	91	87	79	88	97
125.0	84	80	73	82	89
127.5	75	74	67	74	80
130.0	67	67	62	67	70
132.5	59	60	58	61	59

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CANDELA TABULATION - (Cont.)

135.0	51	54	52	55	51
137.5	43	49	49	49	42
140.0	38	45	46	44	34
142.5	37	45	46	42	29
145.0	33	42	43	38	21
147.5	35	43	42	37	19
150.0	38	45	42	39	20
152.5	41	47	44	40	21
155.0	43	48	47	44	28
157.5	44	44	47	47	36
160.0	40	35	41	43	44
162.5	31	21	28	34	44
165.0	20	13	12	22	27
167.5	10	9	7	12	9
170.0	8	8	8	11	8
172.5	9	8	8	10	10
175.0	7	8	8	8	9
177.5	7	8	8	8	9
180.0	9	9	9	9	9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	566.25	17.7	18.5
0-40	1006.73	31.5	32.8
0-60	1949.92	60.9	63.6
0-90	2520.3	78.8	82.2
90-120	381.24	11.9	12.4
90-130	453.55	14.2	14.8
90-150	520.02	16.3	17
90-180	546.53	17.1	17.8
0-180	3066.83	95.8	100

Total Luminaire Efficiency = 95.8%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.47
10-20	191.31
20-30	311.47
30-40	440.48
40-50	496.84
50-60	446.35
60-70	311.81
70-80	127.1
80-90	131.47
90-100	140.66
100-110	133.31
110-120	107.27
120-130	72.31
130-140	41.74
140-150	24.73
150-160	19.4
160-170	6.3
170-180	.81

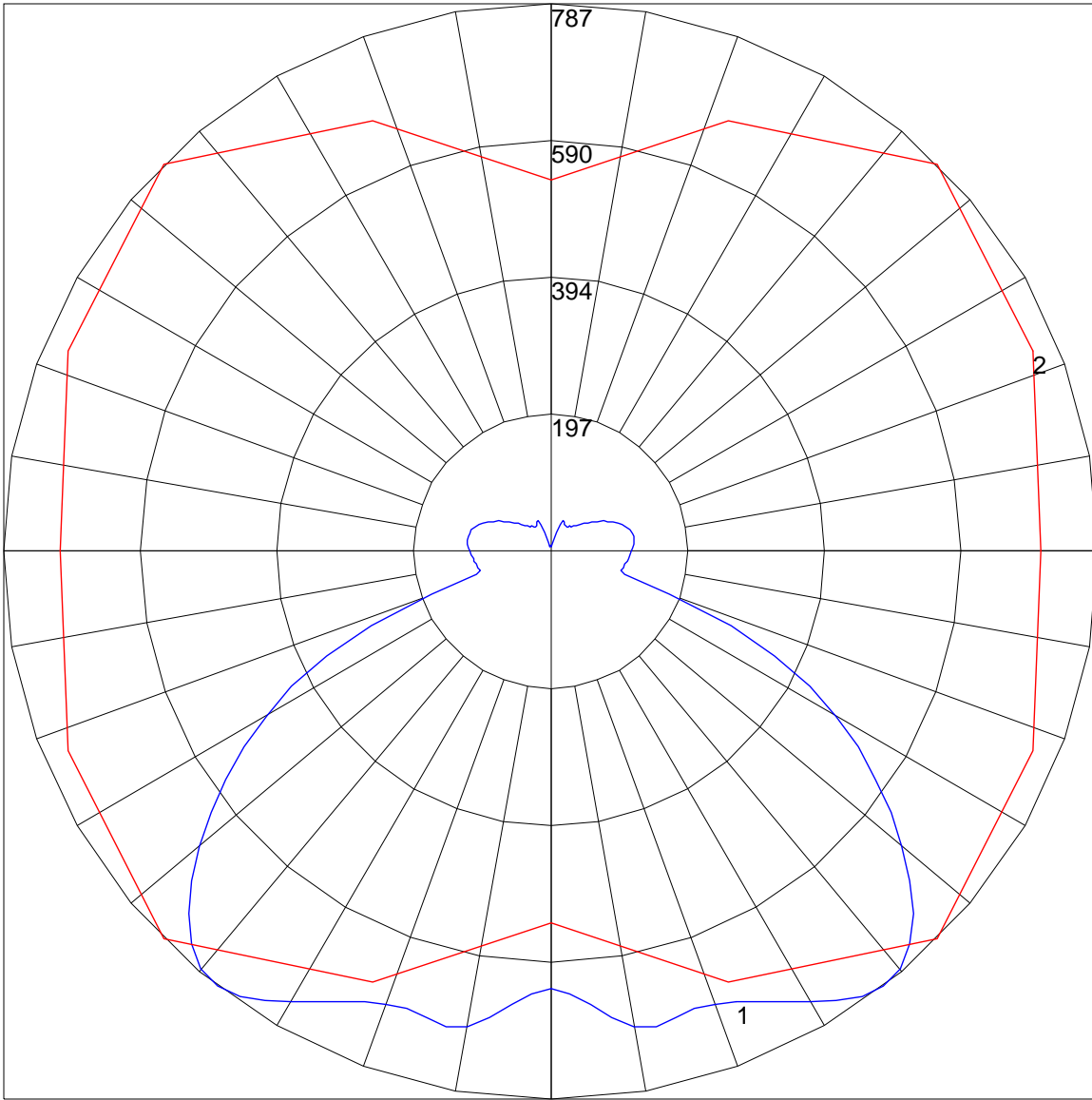
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	110	105	105	105	105	97	97	97	89	89	89	82	82	82	79
1	100	95	90	86	86	95	91	87	83	84	81	78	77	75	72	71	69	67	64
2	90	82	76	70	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53
3	82	72	64	58	58	78	69	62	56	64	58	53	59	54	50	54	50	47	44
4	75	63	55	48	48	71	61	53	47	56	50	45	52	47	42	48	44	40	37
5	69	56	48	41	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
6	63	50	42	35	35	60	48	40	35	45	38	33	42	36	31	39	34	30	27
7	58	45	37	31	31	55	44	36	30	41	34	29	38	32	28	35	30	26	24
8	54	41	33	27	27	51	40	32	27	37	30	25	34	29	24	32	27	23	21
9	50	37	30	24	24	48	36	29	24	34	27	23	32	26	22	29	24	21	19
10	47	34	27	22	22	45	33	26	21	31	25	20	29	23	19	27	22	19	17

POLAR GRAPH



Maximum Candela = 787 Located At Horizontal Angle = 45, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)