



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA454UNIV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]11/01/07
 [TEST]ITL59443
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]PC4SA454UNIV
 [LUMINAIRE]POWER CAGE MIRO4 4' 54w T5H0 4-LAMP
 [LAMP] (4) 54-WATT T-5HO LINEAR FLUORESCENTS
 [BALLAST]SYLVANIA QTP4X54T5HO/UNV PSN HT W
 [MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 241 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	17800 (4 lamps)
Total Luminaire Efficiency	96 %
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	241
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.54
Spacing Criteria (Diagonal)	1.56
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.76 ft
Luminous Height	0.19 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12274	14633	14026
55	11167	12833	13959
65	9327	12939	16285
75	6383	14742	17301
85	1664	10599	12026

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA454UNIV.IES**

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3973	3973	3973	3973	3973
2.5	3992	4012	4064	4098	4120
5.0	3977	4062	4221	4330	4374
7.5	3951	4121	4389	4553	4623
10.0	3917	4191	4554	4776	4856
12.5	3871	4253	4701	4978	5073
15.0	3822	4309	4834	5185	5290
17.5	3763	4352	4954	5339	5449
20.0	3695	4386	5066	5443	5544
22.5	3616	4404	5148	5486	5545
25.0	3535	4408	5191	5425	5408
27.5	3438	4400	5190	5249	5162
30.0	3339	4383	5125	4976	4866
32.5	3233	4362	4982	4677	4551
35.0	3115	4327	4743	4355	4244
37.5	2988	4266	4456	4051	3965
40.0	2854	4182	4148	3807	3788
42.5	2718	4075	3835	3625	3665
45.0	2570	3937	3534	3489	3497
47.5	2419	3762	3268	3314	3299
50.0	2264	3536	3061	3100	3091
52.5	2106	3262	2899	2914	3032
55.0	1933	2954	2699	2857	3062
57.5	1758	2632	2478	2884	3145
60.0	1580	2301	2285	2953	3203
62.5	1404	2005	2226	2964	3102
65.0	1227	1748	2235	2838	2976
67.5	1058	1556	2252	2724	2895
70.0	877	1347	2139	2649	2830
72.5	711	1144	2011	2545	2662
75.0	549	1033	1915	2330	2432
77.5	400	1001	1730	2071	2149
80.0	261	871	1479	1749	1795
82.5	151	732	1184	1407	1475
85.0	63	532	881	1087	1132
87.5	14	321	557	712	741
90.0	0	176	391	551	607
92.5	0	137	377	542	604
95.0	0	85	315	485	546
97.5	0	35	251	416	477
100.0	0	5	182	341	405
102.5	0	0	112	263	325
105.0	0	0	53	190	245
107.5	0	0	14	118	172
110.0	0	0	3	52	95
112.5	0	0	2	15	42
115.0	0	0	0	2	8
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA454UNIV.IES

CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA454UNIV.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3981.41	22.4	23.3
0-40	6652.79	37.4	39
0-60	11823.45	66.4	69.2
0-90	16661.83	93.6	97.6
90-120	417.65	2.3	2.4
90-130	417.65	2.3	2.4
90-150	417.65	2.3	2.4
90-180	417.65	2.3	2.4
0-180	17079.47	96	100

Total Luminaire Efficiency = 96%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	409.15
10-20	1339.11
20-30	2233.14
30-40	2671.39
40-50	2694.68
50-60	2475.98
60-70	2220.34
70-80	1768.63
80-90	849.41
90-100	309.33
100-110	102.27
110-120	6.05
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

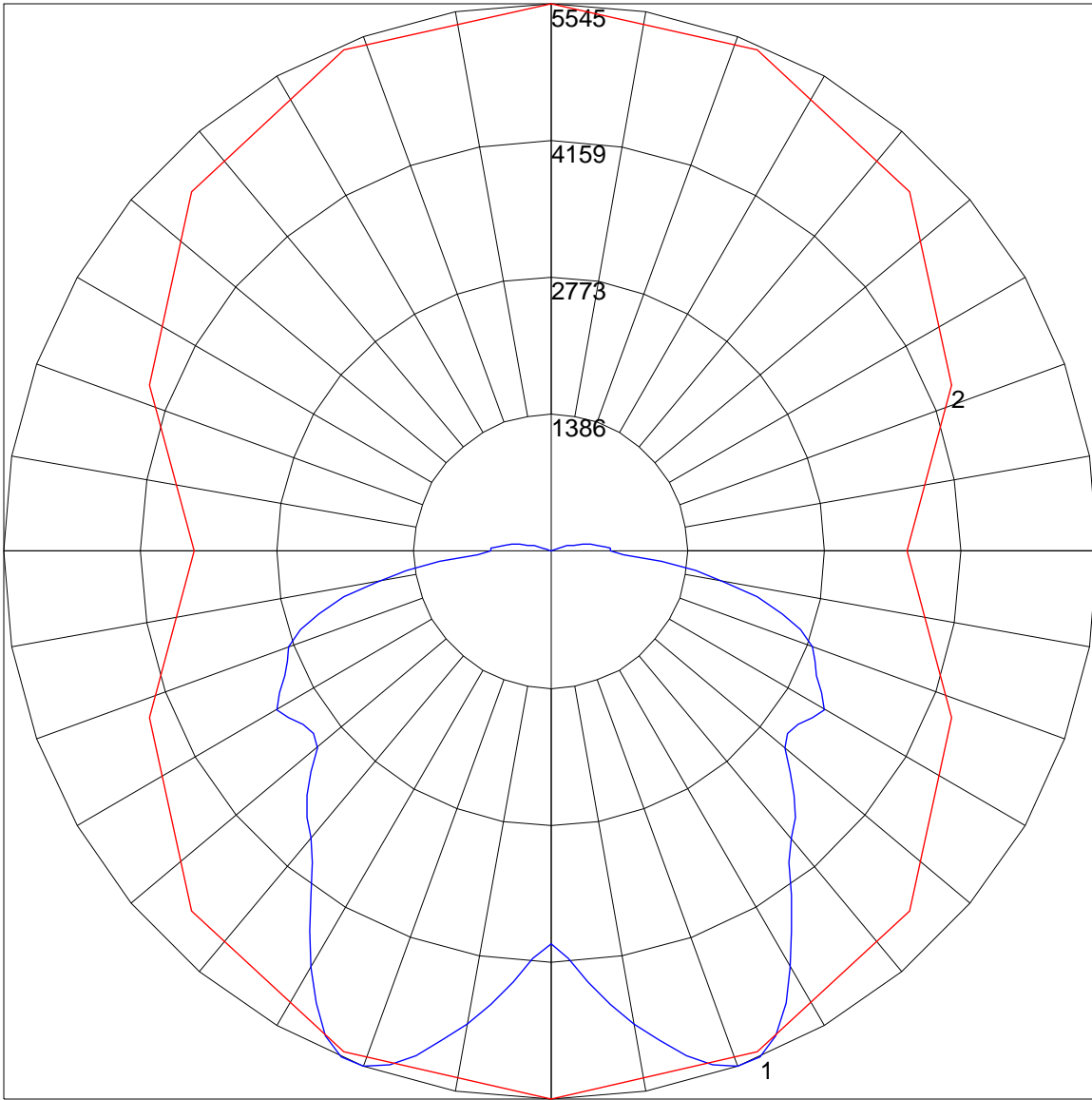
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA454UNIV.IES

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	114	114	114	114	114	111	111	111	111	111	105	105	105	100	100	100	96	96	96	94
1	102	97	92	87	99	94	90	86	89	86	83	85	82	80	81	79	77	74	74	74
2	92	83	76	69	89	81	74	68	77	71	66	73	69	65	70	66	63	60	60	60
3	83	72	64	57	81	70	63	56	67	60	55	64	58	54	61	56	52	50	50	50
4	76	64	55	48	73	62	54	47	59	52	46	57	50	45	54	49	44	42	42	42
5	70	57	47	41	67	55	47	40	53	45	40	51	44	39	49	43	38	36	36	36
6	64	51	42	35	62	50	41	35	48	40	35	46	39	34	44	38	34	31	31	31
7	59	46	37	31	58	45	37	31	43	36	30	42	35	30	40	34	30	28	28	28
8	55	42	33	28	54	41	33	27	40	32	27	38	32	27	37	31	26	24	24	24
9	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22	22	22
10	48	35	27	22	47	35	27	22	34	27	22	32	26	22	31	26	22	20	20	20

POLAR GRAPH



Maximum Candela = 5545 Located At Horizontal Angle = 90, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)