



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH4RA654UNIV10CSPF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE]03/31/10
 [TEST]ITL64499
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS, INC.
 [LUMCAT]GH4RA654UNIV10CSPF
 [LUMINAIRE]GREEN HI BAY REFLECTIVE ALUMINUM 4' 54W T5HO 6-LAMP W/10' CORD, QUICK SHIP
 [LAMP](6) 54-WATT T5HO LINEAR FLUORESCENTS
 [BALLAST]SYLVANIA QTP4X54T5HO/UNV PSN HT W, SYLVANIA
 [MORE]QTP2X54T5HO/UNV PSN HT
 [_ MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS = 328.9 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED = 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	26700 (6 lamps)
Total Luminaire Efficiency	88.8 %
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	329
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.90
Spacing Criteria (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	1.42 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21062	11065	9497
55	19524	9104	11222
65	16939	10977	11732
75	12686	9327	6536
85	3765	0	0

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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	12129	12129	12129	12129	12129
2.5	12189	12133	12028	11946	11928
5.0	12146	12041	11863	11763	11719
7.5	12067	11898	11723	11606	11545
10.0	11963	11737	11536	11293	11153
12.5	11832	11536	11223	10866	10753
15.0	11676	11358	10905	10444	10317
17.5	11467	11171	10465	10061	9899
20.0	11275	10866	10069	9547	9273
22.5	11023	10535	9664	8911	8393
25.0	10761	10152	9246	8010	7697
27.5	10509	9795	8681	7348	6922
30.0	10187	9347	7932	6565	6129
32.5	9882	8903	7222	5881	5503
35.0	9473	8476	6517	5241	4945
37.5	9107	8014	5838	4710	4458
40.0	8715	7557	5167	4244	3996
42.5	8297	6991	4606	3822	3726
45.0	7897	6386	4149	3548	3561
47.5	7409	5729	3639	3383	3587
50.0	6957	5067	3239	3391	3674
52.5	6425	4475	2938	3452	3509
55.0	5938	3818	2769	3278	3413
57.5	5450	3256	2747	3191	3396
60.0	4893	2712	2716	3143	3204
62.5	4362	2303	2547	2921	2952
65.0	3796	1915	2460	2651	2629
67.5	3291	1611	2277	2329	2229
70.0	2725	1454	1998	1907	1759
72.5	2238	1358	1698	1424	1350
75.0	1741	1223	1280	1014	897
77.5	1254	1058	845	540	357
80.0	862	775	414	104	35
82.5	444	418	39	0	0
85.0	174	78	0	0	0
87.5	26	0	0	0	0
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	8402.19	31.5	35.4
0-40	12700.29	47.6	53.5
0-60	19827.21	74.3	83.6
0-90	23717.44	88.8	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	23717.44	88.8	100

Total Luminaire Efficiency = 88.8%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1125.53
10-20	3071.57
20-30	4205.08
30-40	4298.11
40-50	3839.01
50-60	3287.92
60-70	2520.46
70-80	1252.51
80-90	117.26
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

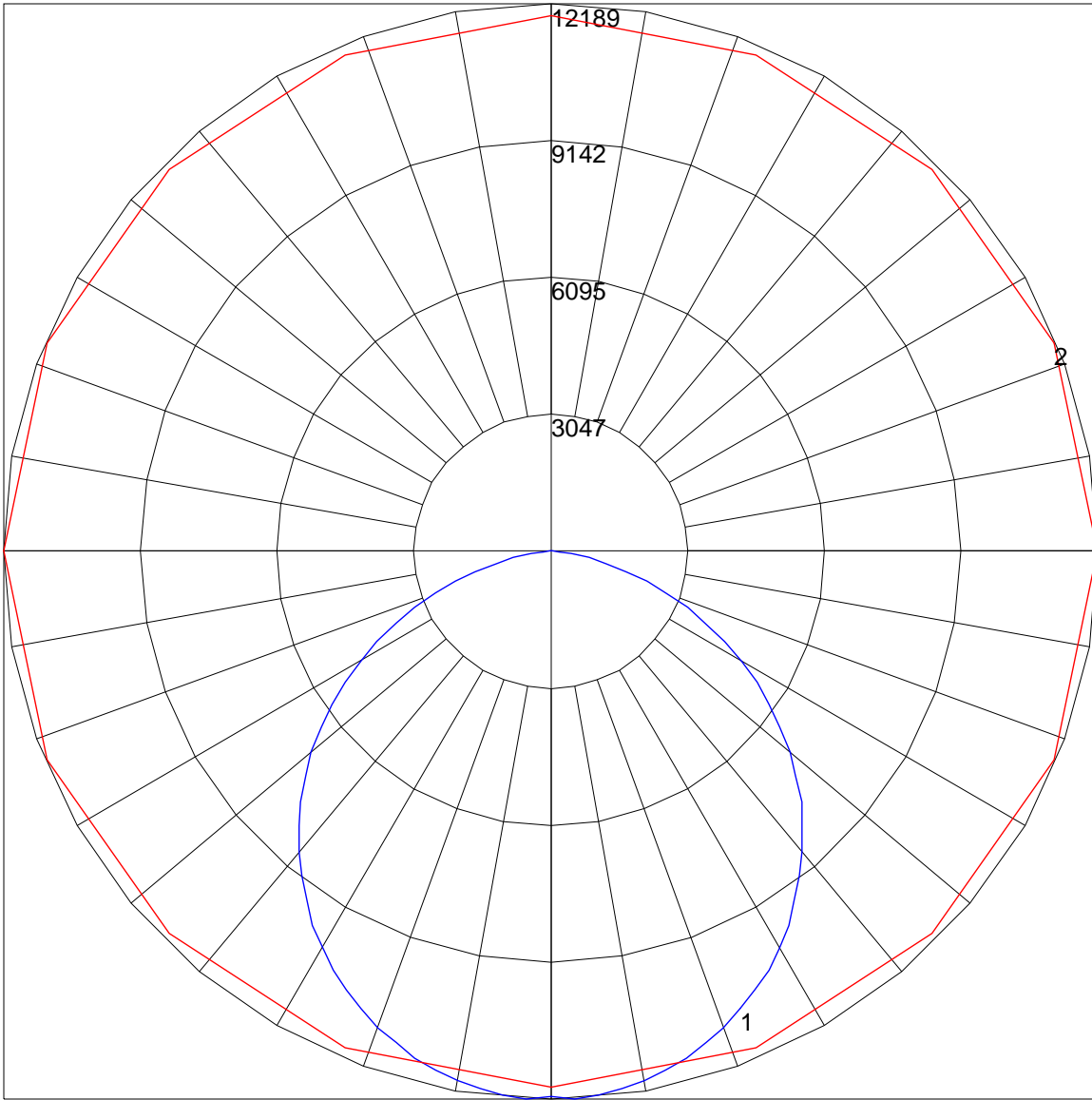
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	103	103	103	103	99	99	99	94	94	94	91	91	91	89	0
1	98	94	91	87	95	92	89	86	88	86	83	85	83	81	82	80	78	77	0
2	90	83	77	73	87	81	76	72	78	74	70	75	72	69	73	70	67	65	0
3	82	74	67	62	80	72	66	61	70	64	60	67	63	59	65	61	58	56	0
4	76	66	59	53	74	65	58	53	63	57	52	61	56	51	59	54	51	49	0
5	70	60	52	47	68	59	52	46	57	51	46	55	50	45	53	49	45	43	0
6	65	54	47	41	64	53	46	41	52	45	41	50	45	40	49	44	40	38	0
7	61	49	42	37	59	49	42	37	47	41	37	46	41	36	45	40	36	34	0
8	57	45	38	33	55	45	38	33	44	37	33	43	37	33	42	37	33	31	0
9	53	42	35	30	52	41	35	30	40	34	30	40	34	30	39	34	30	28	0
10	50	39	32	28	49	39	32	28	38	32	28	37	31	28	36	31	27	26	0

POLAR GRAPH



Maximum Candela = 12189 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)