

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SHE654HO.IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LSCD957
[TESTLAB] Lighting Sciences Canada Ltd.
[MORE] 160 Frobisher Drive, Unit 5
[MORE] Waterloo, Ontario
[ISSUEDATE] 08-04-2009
[MANUFAC] THOMAS LIGHTING CANADA
[MORE] MARKHAM, ONTARIO
[LUMCAT] SHE654HO-UNV-1/42EB-GENRS
[LUMINAIRE] THOMAS LIGHTING 4' FLUORESCENT LUMINAIRE
[MORE] WITH SPECULAR REFLECTOR
[LAMP] SIX 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
[BALLAST] ONE ULTRASAVE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST
[MORE] ONE ULTRASAVE 120-277 3 OR 4-LAMP ELECTRONIC BALLAST
[BALLASTCAT] ER254120MHT-W
[MORE] ER454120MHT-W

CHARACTERISTICS

Lumens Per Lamp	4450 (6 lamps)
Total Lamp Lumens	26700
Luminaire Lumens	21657
Total Luminaire Efficiency	81 %
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	334
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17015	10718	11333
55	15906	10835	13431
65	13857	12915	16353
75	10128	15358	18077
85	3378	16535	20923

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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	8995	8995	8995	8995	8995
2.5	9006	8981	8984	8992	9014
5.0	8969	8954	8970	8966	8977
7.5	8909	8909	8887	8834	8820
10.0	8826	8840	8746	8608	8582
12.5	8723	8730	8530	8385	8342
15.0	8607	8581	8318	8104	8011
17.5	8459	8392	8098	7733	7585
20.0	8289	8160	7786	7275	7077
22.5	8095	7898	7409	6770	6554
25.0	7880	7626	6976	6260	6025
27.5	7651	7354	6513	5751	5524
30.0	7409	7063	6043	5280	5081
32.5	7150	6735	5564	4862	4701
35.0	6882	6373	5080	4495	4416
37.5	6605	5985	4643	4228	4215
40.0	6324	5576	4251	4046	4065
42.5	6031	5152	3916	3895	3943
45.0	5726	4725	3659	3758	3875
47.5	5404	4299	3458	3689	3860
50.0	5066	3875	3284	3656	3796
52.5	4717	3462	3132	3577	3756
55.0	4356	3077	3028	3535	3762
57.5	3982	2714	2947	3523	3728
60.0	3596	2405	2830	3460	3622
62.5	3205	2152	2766	3330	3522
65.0	2811	1938	2700	3232	3430
67.5	2411	1741	2568	3111	3219
70.0	2012	1588	2433	2850	2945
72.5	1629	1442	2302	2572	2670
75.0	1273	1337	2032	2305	2405
77.5	944	1204	1753	2009	2082
80.0	640	1065	1474	1672	1741
82.5	368	830	1153	1346	1416
85.0	151	568	852	1032	1094
87.5	30	306	551	716	777
90.0	1	109	310	461	516

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3183.55	11.90	14.70
0-30	6378.74	23.90	29.50
0-40	9769.54	36.60	45.10
0-60	16130.47	60.40	74.50
0-80	20803.51	77.90	96.10
0-90	21657.33	81.10	100.00
10-90	20809.43	77.90	96.10
20-40	6586.00	24.70	30.40
20-50	9873.53	37.00	45.60
40-70	9065.24	34.00	41.90
60-80	4673.03	17.50	21.60
70-80	1968.73	7.40	9.10
80-90	853.83	3.20	3.90
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	21657.33	81.10	100.00

Total Luminaire Efficiency = 81.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	847.90
10-20	2335.64
20-30	3195.19
30-40	3390.8
40-50	3287.53
50-60	3073.4
60-70	2704.31
70-80	1968.73
80-90	853.83
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

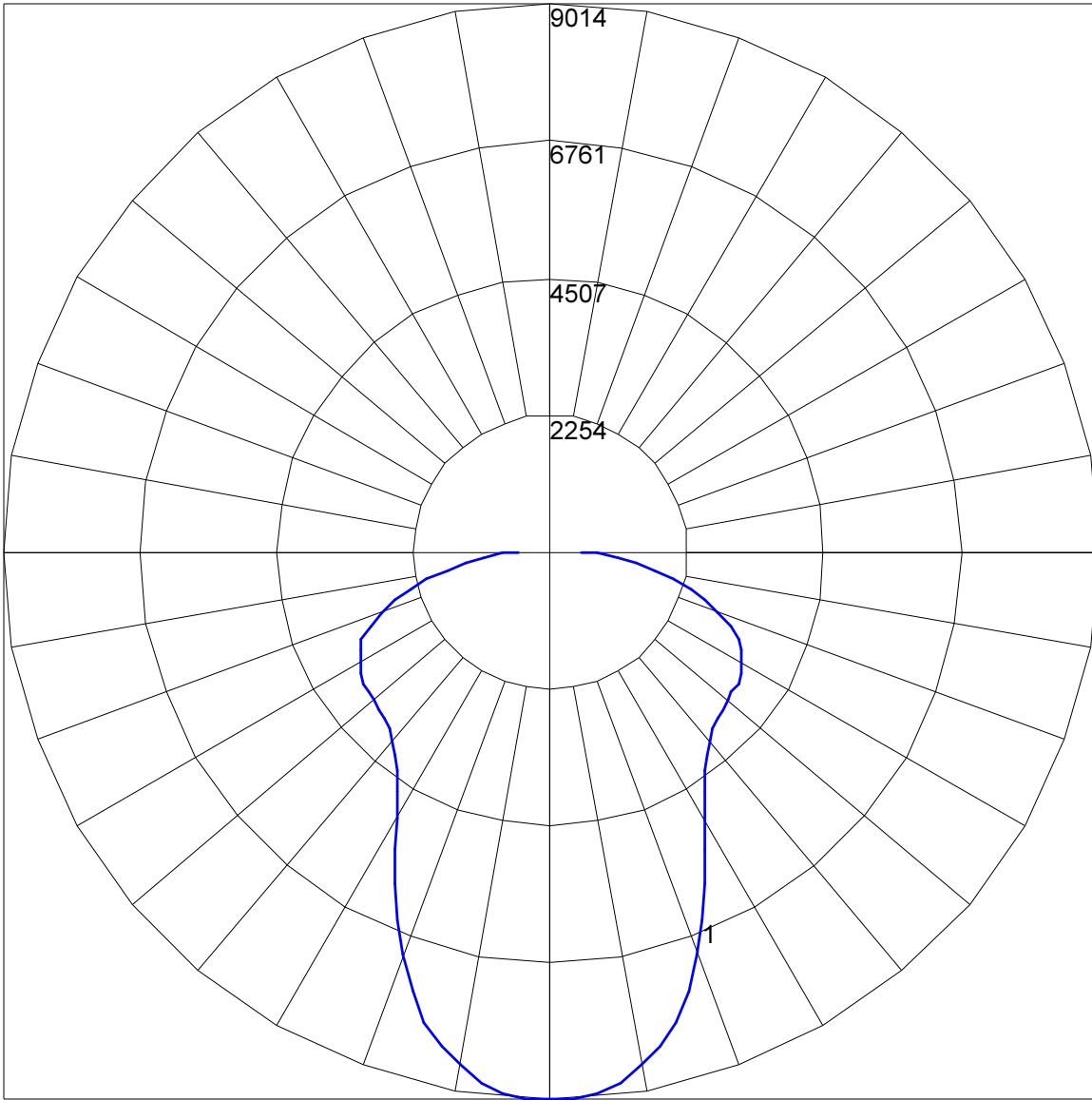
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	97	97	97	94	94	94	94	90	90	90	86	86	86	83	83	83	81	81
1	87	83	79	76	85	81	78	75	78	75	72	75	72	70	72	70	68	66	66
2	79	72	66	61	77	71	65	61	68	63	59	65	61	58	62	59	57	55	55
3	72	63	56	51	70	62	56	51	60	54	50	57	53	49	55	51	48	46	46
4	66	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39	39
5	61	50	43	38	59	50	43	37	48	42	37	46	41	37	45	40	36	34	34
6	57	46	38	33	55	45	38	33	43	37	33	42	36	32	41	36	32	30	30
7	53	42	34	29	51	41	34	29	40	34	29	38	33	29	37	32	29	27	27
8	49	38	31	26	48	38	31	26	36	30	26	35	30	26	34	30	26	24	24
9	46	35	28	24	45	35	28	24	34	28	24	33	27	24	32	27	23	22	22
10	43	33	26	22	42	32	26	22	31	26	22	31	25	22	30	25	22	20	20

POLAR GRAPH



Maximum Candela = 9014 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)