

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SHE454HO.IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LSCD956
[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] SHE454HO-UNV-1/4EB-GENRS
[LUMINAIRE] THOMAS LIGHTING 4' FLUORESCENT LUMINAIRE
[MORE] WITH SPECULAR REFLECTOR
[LAMP] FOUR 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
[BALLAST] ONE ULTRASAVE 120-277V 3 OR 4-LAMP ELECTRONIC BALLAST
[BALLASTCAT] ER454120MHT-W

CHARACTERISTICS

Lumens Per Lamp	4450 (4 lamps)
Total Lamp Lumens	17800
Luminaire Lumens	14375
Total Luminaire Efficiency	81 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	227
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.85 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12668	14410	17710
55	11822	16546	17833
65	10527	15645	13893
75	8250	10538	9955
85	3262	9336	11825

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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	4297	4297	4297	4297	4297
2.5	4302	4301	4317	4335	4344
5.0	4284	4304	4365	4418	4436
7.5	4256	4310	4424	4509	4548
10.0	4216	4315	4480	4618	4669
12.5	4168	4313	4543	4697	4734
15.0	4114	4301	4591	4723	4759
17.5	4045	4284	4590	4714	4740
20.0	3966	4263	4567	4661	4689
22.5	3878	4230	4513	4592	4604
25.0	3780	4183	4431	4477	4450
27.5	3673	4117	4335	4306	4253
30.0	3559	4025	4216	4105	4053
32.5	3438	3924	4053	3915	3912
35.0	3309	3811	3856	3776	3832
37.5	3175	3682	3641	3690	3813
40.0	3036	3542	3449	3666	3857
42.5	2891	3388	3299	3692	3910
45.0	2740	3227	3187	3719	3935
47.5	2583	3048	3118	3726	3942
50.0	2421	2847	3089	3699	3838
52.5	2253	2628	3058	3564	3584
55.0	2081	2405	3006	3297	3261
57.5	1907	2204	2933	2973	2929
60.0	1731	2031	2753	2644	2603
62.5	1551	1884	2463	2320	2265
65.0	1373	1776	2138	1988	1917
67.5	1196	1679	1820	1650	1590
70.0	1018	1569	1508	1346	1310
72.5	841	1393	1195	1083	1058
75.0	667	1115	922	867	885
77.5	500	826	689	734	767
80.0	345	554	541	630	666
82.5	208	338	439	522	552
85.0	94	208	333	408	439
87.5	22	121	234	313	344
90.0	1	57	161	235	262

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1692.76	9.50	11.80
0-30	3668.36	20.60	25.50
0-40	6026.2	33.90	41.90
0-60	11159.4	62.70	77.60
0-80	14024.56	78.80	97.60
0-90	14375.4	80.80	100.00
10-90	13955.85	78.40	97.10
20-40	4333.44	24.30	30.10
20-50	6935.94	39.00	48.20
40-70	7003.81	39.30	48.70
60-80	2865.16	16.10	19.90
70-80	994.55	5.60	6.90
80-90	350.84	2.00	2.40
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	14375.4	80.80	100.00

Total Luminaire Efficiency = 80.80%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	419.55
10-20	1273.21
20-30	1975.61
30-40	2357.84
40-50	2602.5
50-60	2530.7
60-70	1870.61
70-80	994.55
80-90	350.84
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

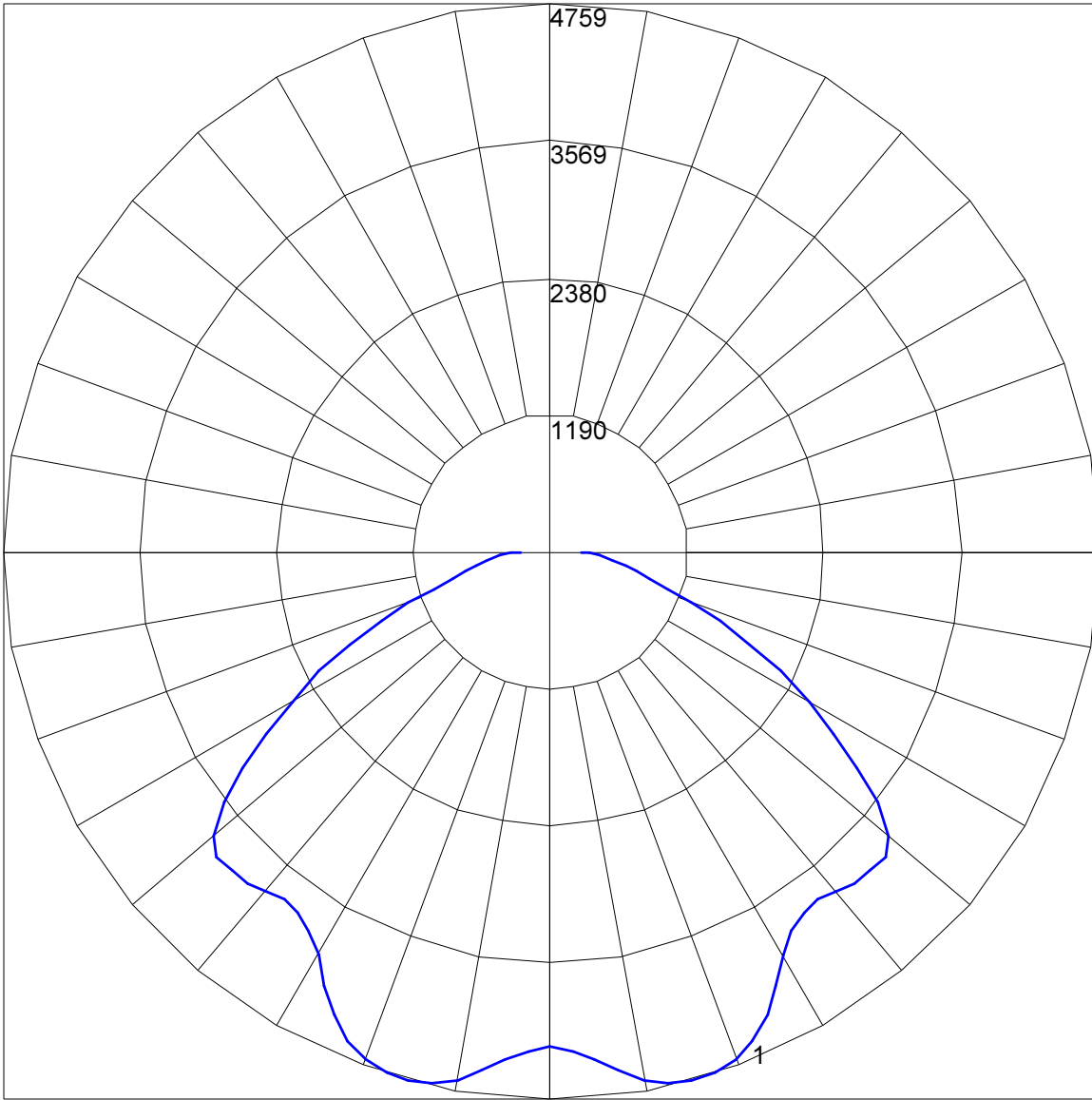
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	94	94	94	94	90	90	90	86	86	86	82	82	82	81	81
1	87	83	80	77	85	82	78	75	78	75	73	75	73	71	72	70	69	67	67
2	79	72	67	62	77	71	66	61	68	64	60	65	62	58	63	60	57	55	55
3	72	63	57	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	41	49	45	41	39	39
5	60	50	42	37	59	49	42	37	47	41	36	45	40	36	44	39	35	34	34
6	56	45	37	32	54	44	37	32	42	36	31	41	35	31	40	35	31	29	29
7	52	40	33	28	50	40	33	28	38	32	28	37	32	27	36	31	27	26	26
8	48	37	30	25	47	36	29	25	35	29	25	34	29	24	33	28	24	23	23
9	45	34	27	22	44	33	27	22	32	26	22	31	26	22	30	26	22	20	20
10	42	31	24	20	41	31	24	20	30	24	20	29	24	20	28	23	20	18	18

POLAR GRAPH



Maximum Candela = 4759 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)