



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SK4SA1054UNIV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [ISSUE]06/15/09  
 [TEST]ITL62477  
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS  
 [LUMCAT]SK4SA1054UNIV  
 [LUMINAIRE]SKY BAY MIRO4 4' 54W T5HO 10-LAMP  
 [LAMP](10) 54-WATT T-5 LINEAR FLUORESCENTS  
 [BALLAST](2) SYLVANIA QTP 4X54T5HO/UNV PSN HT W  
 [MORE](2) SYLVANIA QTP 2X54T5HO/UNV PSN HT  
 [\_ MOUNTING]SUSPENDED  
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
 [OTHER]TOTAL INPUT WATTS = 557.0 AT 120.0 VOLTS  
 [OTHER]LUMEN TO CANDELA RATIO USED = 9.17

**CHARACTERISTICS**

Total Rated Lamp Lumens	44500 (10 lamps)
Total Luminaire Efficiency	95.9 %
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	557
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.94
Spacing Criteria (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.97 ft
Luminous Width (90-270)	2.90 ft
Luminous Height	0.00 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17917	8992	8192
55	16624	7802	9285
65	14353	9068	10552
75	10514	8647	6264
85	2327	182	182

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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>
<b>0.0</b>	21139	21139	21139	21139	21139
<b>2.5</b>	21134	21184	21267	21284	21342
<b>5.0</b>	21042	21217	21334	21384	21392
<b>7.5</b>	20908	21175	21284	21346	21292
<b>10.0</b>	20717	21059	21142	20996	20750
<b>12.5</b>	20475	20892	20725	20420	20283
<b>15.0</b>	20183	20646	20149	19966	19757
<b>17.5</b>	19891	20358	19711	19498	19223
<b>20.0</b>	19507	19949	19148	18802	18122
<b>22.5</b>	19115	19453	18652	17446	15994
<b>25.0</b>	18656	18839	17947	15393	13883
<b>27.5</b>	18189	18176	16791	13379	11772
<b>30.0</b>	17646	17567	15085	11426	10187
<b>32.5</b>	17062	16912	13237	9828	8944
<b>35.0</b>	16411	16161	11364	8673	8176
<b>37.5</b>	15769	15414	9745	7905	7576
<b>40.0</b>	15060	14613	8456	7288	7184
<b>42.5</b>	14334	13608	7530	6896	6783
<b>45.0</b>	13558	12361	6804	6504	6199
<b>47.5</b>	12799	10930	6216	5940	6016
<b>50.0</b>	11923	9361	5778	5690	6232
<b>52.5</b>	11097	7989	5361	5861	6182
<b>55.0</b>	10204	6541	4789	5799	5699
<b>57.5</b>	9253	5461	4606	5336	5690
<b>60.0</b>	8368	4560	4664	5306	5640
<b>62.5</b>	7459	3884	4326	5202	5265
<b>65.0</b>	6491	3367	4101	4789	4772
<b>67.5</b>	5607	2937	3984	4318	4172
<b>70.0</b>	4622	2490	3571	3650	3387
<b>72.5</b>	3763	2340	3062	2949	2578
<b>75.0</b>	2912	2086	2395	2107	1735
<b>77.5</b>	2077	1848	1623	1264	859
<b>80.0</b>	1327	1435	851	438	133
<b>82.5</b>	701	851	117	25	17
<b>85.0</b>	217	280	17	21	17
<b>87.5</b>	33	17	17	17	17
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	15523.66	34.9	36.4
0-40	23166.38	52.1	54.3
0-60	35697.63	80.2	83.6
0-90	42678.61	95.9	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	42678.61	95.9	100

Total Luminaire Efficiency = 95.9%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2022.5
10-20	5690.15
20-30	7811.01
30-40	7642.72
40-50	6857.76
50-60	5673.48
60-70	4418.53
70-80	2318.73
80-90	243.72
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

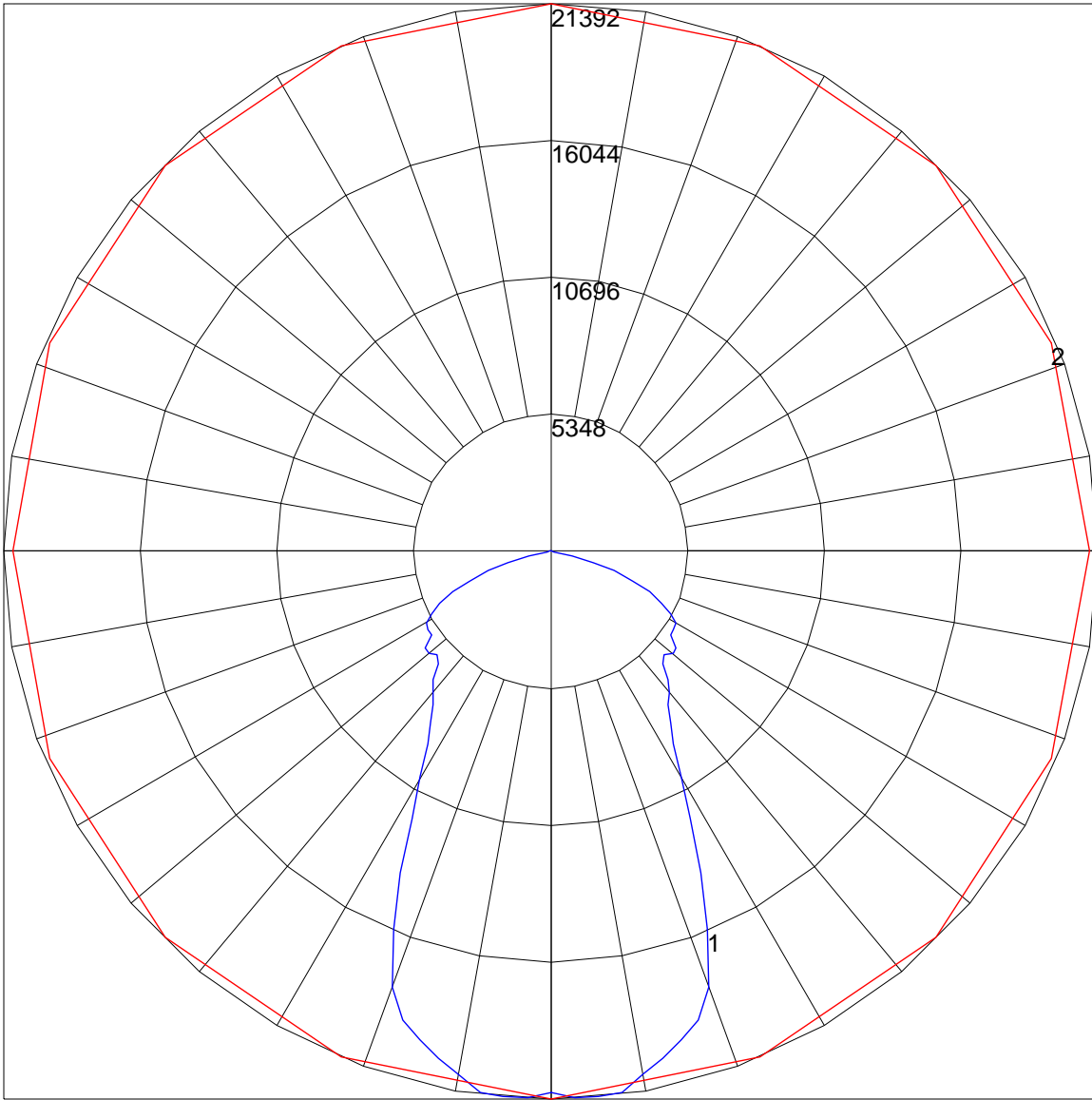
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	112	112	112	112	107	107	107	102	102	102	98	98	98	96
1	106	101	98	94	103	99	96	93	95	93	90	92	89	87	88	86	85	83
2	97	90	84	79	94	88	82	78	85	80	76	81	78	74	79	75	73	71
3	89	80	73	67	87	78	72	66	75	70	65	73	68	64	70	66	63	61
4	82	71	64	58	80	70	63	57	68	62	57	66	60	56	64	59	55	53
5	76	65	57	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47
6	71	59	51	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42
7	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	43	39	38
8	62	49	42	36	60	49	41	36	48	41	36	46	40	36	45	40	36	34
9	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31
10	54	42	35	30	53	42	35	30	41	35	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 21392 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)