



# Photometric Report by:

## SPECTRUM LIGHTING, INC.

994 JEFFERSON ST. ● FALL RIVER, MA 02721

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : FWT4SN183KR0104.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 3.1.5 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TEST] SP-00293\_9

[TESTDATE] Thu Dec 02 13:51:38 2010

[MANUFAC] Spectrum Lighting

[LUMCAT] FWT4SN183KR0104(SGL4SQLED18/3K/AR0104SGSO\_18)

[LAMP] 18Watt OSRAM 3000K

[LAMPCAT] DL1100

### CHARACTERISTICS

Lumens Per Lamp	1530 (1 lamp)
Total Lamp Lumens	1530
Luminaire Lumens	1114
Total Luminaire Efficiency	73 %
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.60
Spacing Criteria (90-270)	1.62
Spacing Criteria (Diagonal)	1.66
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.83 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.86 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2496	2773	2511
55	1568	1210	773
65	155	159	91
75	16	29	17
85	2	4	1

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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</b>	387.23	387.23	387.23	387.23	387.23
<b>5</b>	402.02	394.62	389.74	398.73	395.22
<b>10</b>	390.85	400.00	399.18	399.22	395.31
<b>15</b>	396.27	400.17	399.69	394.03	402.32
<b>20</b>	399.92	404.53	402.55	408.78	421.79
<b>25</b>	400.36	402.54	411.43	429.16	439.88
<b>30</b>	398.08	410.97	429.16	455.82	464.58
<b>35</b>	410.12	426.96	463.61	459.87	456.72
<b>40</b>	401.10	438.74	478.92	435.63	395.80
<b>45</b>	370.07	418.04	442.26	363.61	301.40
<b>50</b>	331.59	360.71	333.30	248.97	186.35
<b>55</b>	229.58	246.40	192.79	127.27	87.85
<b>60</b>	96.04	108.67	81.13	50.47	29.63
<b>65</b>	21.76	26.96	24.52	18.76	9.46
<b>70</b>	5.83	7.65	8.73	6.25	3.77
<b>75</b>	2.02	3.53	4.20	2.50	1.51
<b>80</b>	0.85	1.44	1.75	0.94	0.60
<b>85</b>	0.19	0.35	0.58	0.29	0.07
<b>90</b>	0.03	0.11	0.13	0.04	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	344.84	22.50	31.00
0-40	621.57	40.60	55.80
0-60	1078.53	70.50	96.90
0-90	1113.58	72.80	100.00
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
0-180	1113.58	72.80	100.00

Total Luminaire Efficiency = 72.80%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.74
10-20	113.57
20-30	193.53
30-40	276.73
40-50	292.79
50-60	164.18
60-70	30.81
70-80	3.70
80-90	0.53
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

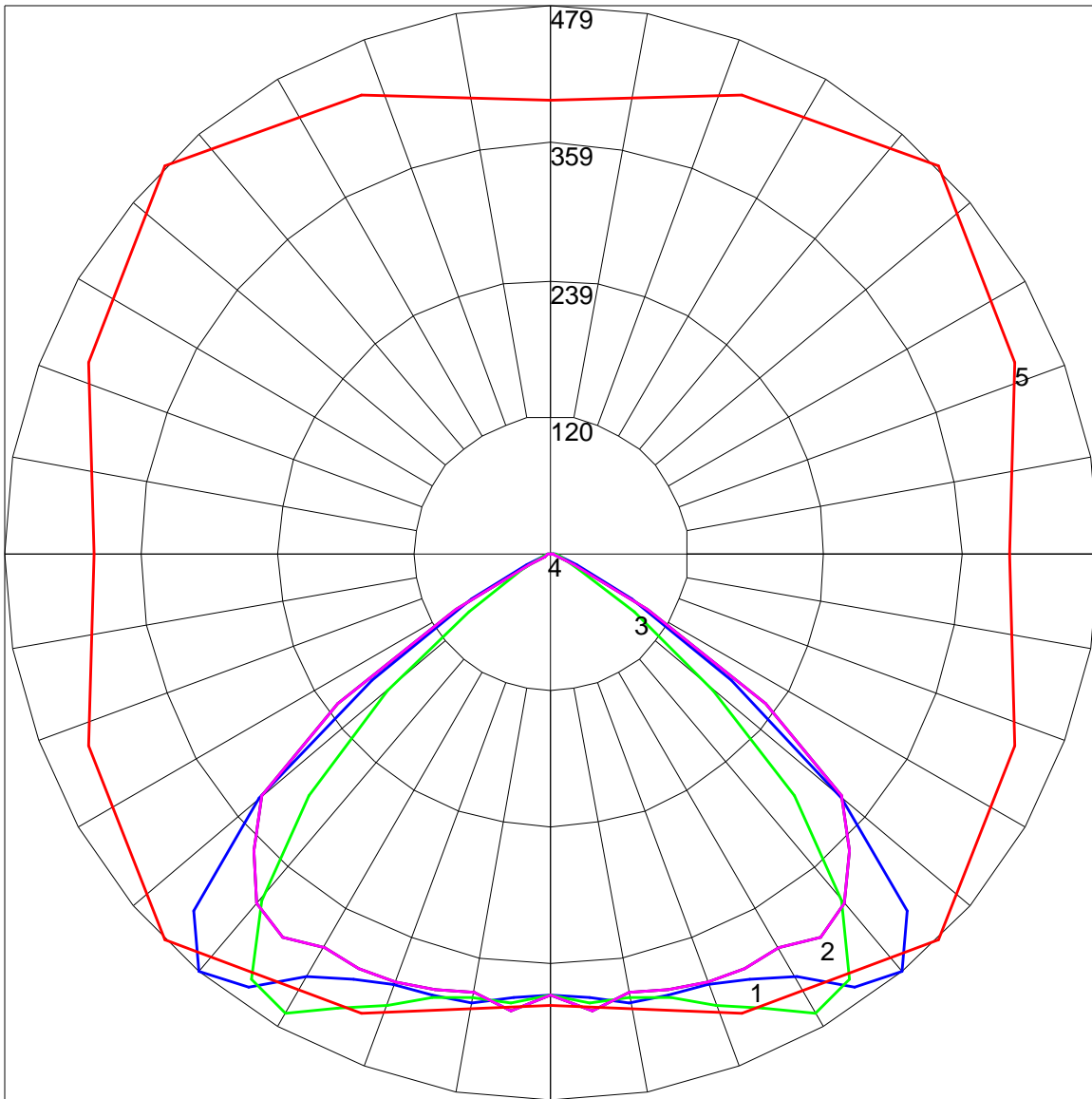
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	73	
1	81	78	76	74	79	77	75	73	74	72	70	71	70	68	68	67	66	65	
2	75	70	66	63	73	69	65	62	66	63	61	64	62	59	62	60	58	57	
3	69	63	58	54	68	62	57	53	60	56	53	58	55	52	56	53	51	49	
4	64	56	51	47	62	55	50	46	54	49	46	52	48	45	51	47	45	43	
5	59	51	45	41	58	50	44	40	48	44	40	47	43	40	46	42	39	38	
6	55	46	40	36	53	45	40	36	44	39	35	43	38	35	42	38	35	33	
7	51	42	36	32	49	41	35	31	40	35	31	39	34	31	38	34	31	29	
8	47	38	32	28	46	37	32	28	36	31	28	36	31	28	35	31	28	26	
9	44	35	29	25	43	34	29	25	33	28	25	33	28	25	32	28	25	23	
10	41	32	26	23	40	31	26	23	31	26	23	30	26	22	29	25	22	21	

POLAR GRAPH



- Maximum Candela = 478.92 Located At Horizontal Angle = 45, Vertical Angle = 40
- # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
  - # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
  - # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
  - # 4 - Vertical Plane Through Horizontal Angles (180 - 0)
  - # 5 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)