



Photometric Report by:

SPECTRUM LIGHTING, INC.

994 JEFFERSON ST. ● FALL RIVER, MA 02721

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FDT4SN18W3KR0404.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TEST] SP-00293_7

[TESTDATE] Thu Dec 02 13:35:29 2010

[MANUFAC] Spectrum Lighting

[LUMCAT] FDT4SN18W3KR0404 (SGD4SQLED18/3K/AR0204SGSO)

[LAMP] 18Watt OSRAM 3000K

[LAMPCAT] DL1100

CHARACTERISTICS

Lumens Per Lamp	1530 (1 lamp)
Total Lamp Lumens	1530
Luminaire Lumens	1125
Total Luminaire Efficiency	74 %
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.40
Spacing Criteria (90-270)	1.40
Spacing Criteria (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.75 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.63 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2450	5135	2000
55	224	357	174
65	70	77	60
75	19	36	11
85	1	7	2

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	624.25	624.25	624.25	624.25	624.25	624.25	624.25	624.25	624.25
5	642.10	628.47	631.72	629.32	627.20	629.70	640.33	631.31	635.59
10	633.25	632.50	634.70	634.66	641.82	635.83	633.23	637.91	639.94
15	664.82	647.75	656.20	655.92	655.36	648.51	654.86	650.63	660.98
20	664.57	663.57	678.59	667.04	662.75	664.97	678.86	663.80	659.61
25	690.45	693.47	679.58	696.13	688.07	693.31	686.95	688.79	689.23
30	670.71	689.21	685.16	687.34	671.64	687.43	688.41	690.79	666.48
35	558.71	612.04	669.63	613.27	557.36	618.50	669.52	611.48	556.83
40	323.52	429.53	562.19	429.43	328.34	429.53	561.55	428.63	327.84
45	111.11	185.69	314.41	187.66	111.35	188.28	319.79	188.84	109.73
50	26.82	50.65	100.53	52.01	25.76	51.69	98.97	52.67	26.84
55	9.83	13.97	22.25	13.79	9.71	13.83	22.86	13.85	8.57
60	4.66	6.16	8.44	6.60	5.20	6.10	7.76	6.28	5.28
65	2.89	3.72	4.76	3.58	3.28	3.52	5.13	3.76	3.43
70	1.79	2.11	3.20	2.07	1.68	1.96	3.36	1.96	1.31
75	0.72	0.86	2.11	1.01	0.57	1.11	1.91	0.99	0.95
80	0.37	0.46	1.00	0.51	0.31	0.43	0.93	0.53	0.21
85	0.03	0.13	0.37	0.18	0.08	0.13	0.44	0.13	0.04
90	0.00	0.01	0.03	0.04	0.00	0.03	0.07	0.05	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	561.94	36.70	50.00
0-40	928.25	60.70	82.50
0-60	1119.15	73.10	99.50
0-90	1124.82	73.50	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	1124.82	73.50	100.00

Total Luminaire Efficiency = 73.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.38
10-20	185.45
20-30	316.11
30-40	366.31
40-50	170.24
50-60	20.66
60-70	4.05
70-80	1.35
80-90	0.26
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

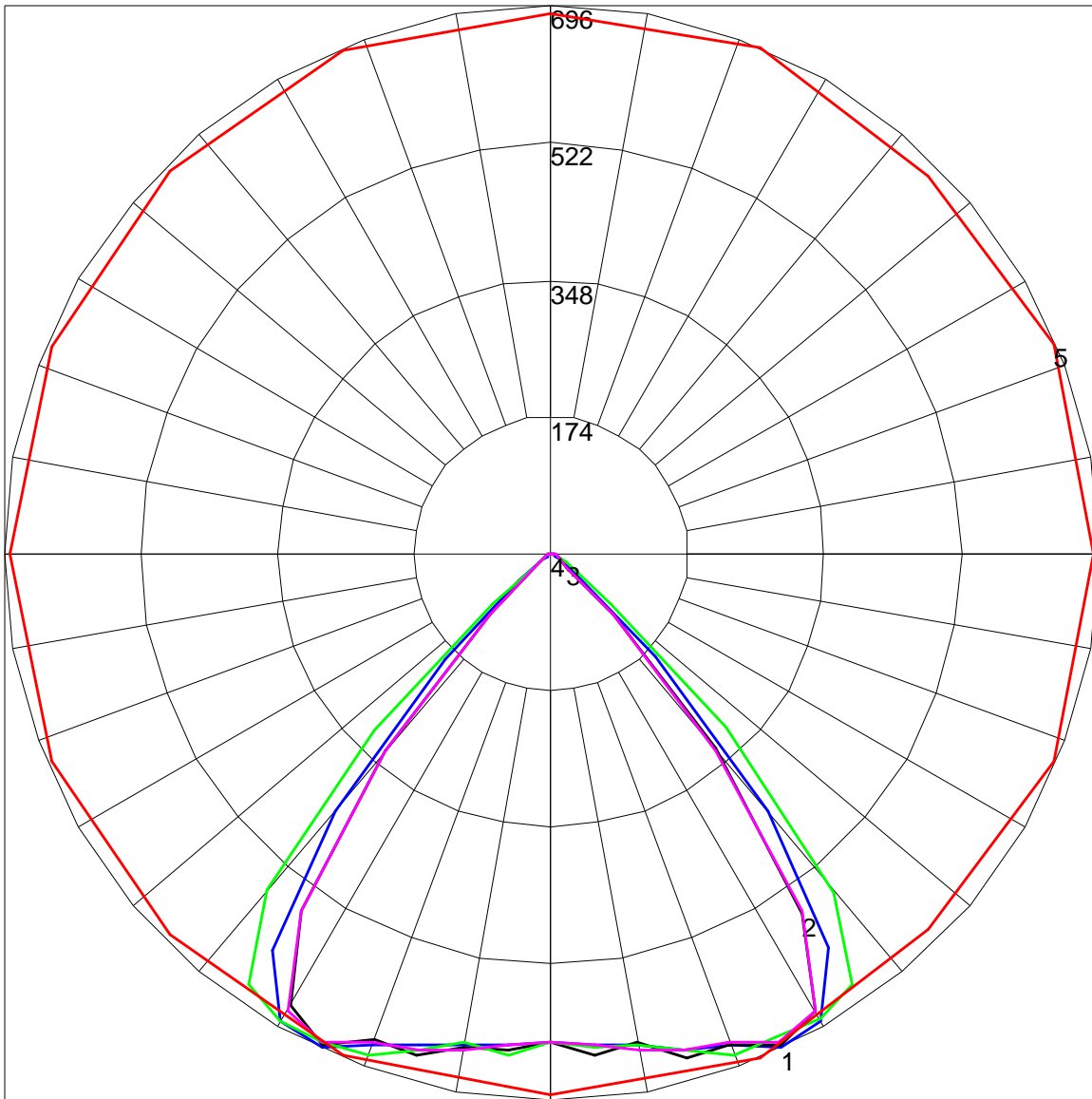
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	88	88	88	85	85	85	85	82	82	82	78	78	78	75	75	75	74	
1	83	81	79	77	81	79	77	76	76	75	73	73	72	71	71	70	69	68	
2	78	74	71	68	76	73	70	67	70	68	66	68	66	64	66	64	63	61	
3	73	68	64	60	72	67	63	60	65	62	59	63	60	58	61	59	57	56	
4	69	62	58	54	67	62	57	54	60	56	53	58	55	53	57	54	52	51	
5	64	57	52	49	63	57	52	49	55	51	48	54	50	48	53	50	47	46	
6	60	53	48	44	59	52	48	44	51	47	44	50	46	43	49	46	43	42	
7	57	49	44	40	56	48	44	40	47	43	40	46	43	40	46	42	39	38	
8	53	45	40	37	52	45	40	37	44	40	37	43	39	36	42	39	36	35	
9	50	42	37	34	49	42	37	34	41	37	34	40	36	33	40	36	33	32	
10	47	39	34	31	47	39	34	31	38	34	31	38	34	31	37	33	31	30	

POLAR GRAPH



- Maximum Candela = 696.13 Located At Horizontal Angle = 67.5, Vertical Angle = 25
- # 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
 - # 2 - Vertical Plane Through Horizontal Angles (0 - 180)
 - # 3 - Vertical Plane Through Horizontal Angles (45 - 225)
 - # 4 - Vertical Plane Through Horizontal Angles (90 - 270)
 - # 5 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)