

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGDF6LEDOS-35W35KE1-AR6160DFOS-FAF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TESTLAB] Photopia 3.2.11 see: [www.ltiopics.com/ies](http://www.ltiopics.com/ies)  
 [ISSUE DATE]  
 [TEST] SP-00283\_29  
 [TEST DATE] Oct 06 2014  
 [UPDATE] Aug 24 2015  
 [MANUFAC] Spectrum Lighting  
 [LUMCAT] SGDF6LEDOS-35W-35K-E1-AR6160DFOS-MW-FAF  
 [LUMINAIRE] Recessed Dead-Front, Wet Location, Acrylic Fresnel Downlight  
 [LAMP] N/A  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] Output Multipliers: 40K x 1.03, 30K x 0.95, 27K x 0.89  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2350
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	35.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	2119.67	2119.67	2119.67	2119.67	2119.67
<b>5</b>	2017.44	2028.50	2092.73	2055.87	2109.42
<b>10</b>	2159.10	2091.83	2158.08	2063.31	2257.05
<b>15</b>	2145.97	1992.80	2081.33	2052.87	2126.67
<b>20</b>	1826.14	1833.20	1830.77	1851.47	1854.42
<b>25</b>	1497.90	1450.08	1462.67	1475.52	1479.31
<b>30</b>	1069.32	1026.40	1072.30	1041.85	1105.12
<b>35</b>	750.69	719.13	712.22	736.47	760.74
<b>40</b>	502.33	477.41	463.30	472.00	455.30
<b>45</b>	316.76	307.18	303.60	308.25	292.59
<b>50</b>	180.60	200.43	178.90	193.64	176.55
<b>55</b>	117.98	127.36	116.12	131.66	133.99
<b>60</b>	81.12	78.62	85.38	77.64	83.28
<b>65</b>	48.05	57.21	51.03	52.07	52.04
<b>70</b>	32.36	35.98	31.41	33.71	39.37
<b>75</b>	25.04	25.17	23.44	21.61	18.80
<b>80</b>	13.64	15.42	14.85	14.84	11.68
<b>85</b>	7.62	7.37	10.00	7.33	10.27
<b>90</b>	6.87	3.07	1.88	1.50	2.96

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	770.59	N.A.	32.80
0-30	1437.25	N.A.	61.20
0-40	1901.35	N.A.	80.90
0-60	2261.1	N.A.	96.20
0-80	2340.56	N.A.	99.60
0-90	2349.85	N.A.	100.00
10-90	2149.97	N.A.	91.50
20-40	1130.76	N.A.	48.10
20-50	1374.75	N.A.	58.50
40-70	414.20	N.A.	17.60
60-80	79.45	N.A.	3.40
70-80	25.00	N.A.	1.10
80-90	9.29	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2349.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	199.87
10-20	570.72
20-30	666.65
30-40	464.11
40-50	243.98
50-60	115.77
60-70	54.45
70-80	25.00
80-90	9.29
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

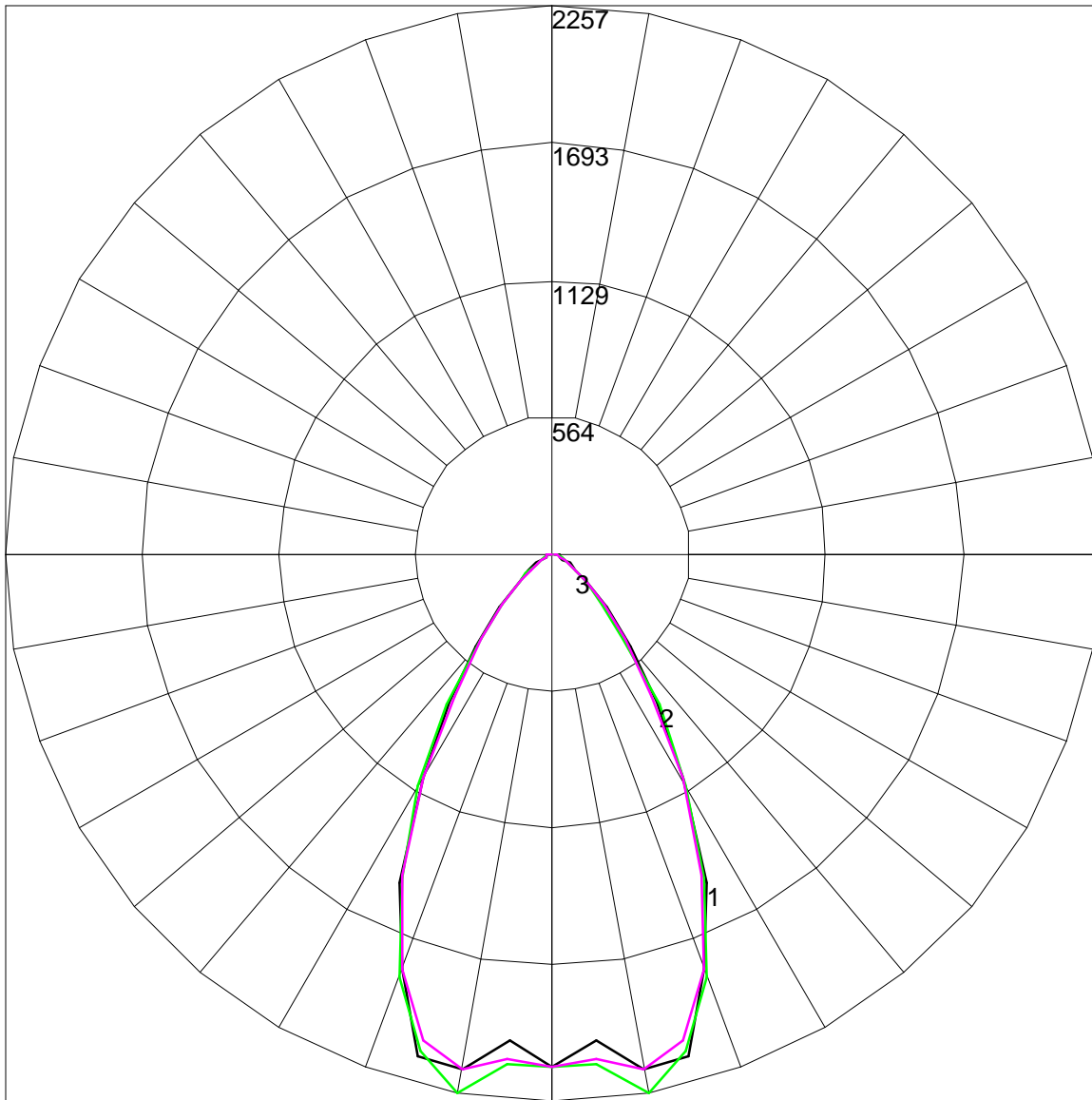
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66	64
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51
9	71	61	54	50	70	60	54	50	59	54	50	58	53	49	57	53	49	48
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45

POLAR GRAPH



Maximum Candela = 2257.05 Located At Horizontal Angle = 90, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)