

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SGDF6LEDOS-9W35KE1-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\_M9  
 [TEST DATE] Oct 06 2014  
 [UPDATE] Aug 24 2015  
 [MANUFAC] Spectrum Lighting  
 [LUMCAT] SGDF6LEDOS-9W-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, scaled from 35W

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	10.4
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>	485.616	485.616	485.616	485.616	485.616
<b>5</b>	462.196	464.729	479.444	471.000	483.268
<b>10</b>	494.650	479.238	494.416	472.704	517.090
<b>15</b>	491.642	456.550	476.833	470.313	487.220
<b>20</b>	418.369	419.986	419.429	424.172	424.848
<b>25</b>	343.169	332.213	335.098	338.042	338.910
<b>30</b>	244.981	235.148	245.664	238.688	253.183
<b>35</b>	171.983	164.753	163.170	168.725	174.286
<b>40</b>	115.084	109.375	106.142	108.135	104.309
<b>45</b>	72.570	70.375	69.555	70.620	67.032
<b>50</b>	41.375	45.919	40.986	44.363	40.448
<b>55</b>	27.029	29.178	26.603	30.163	30.697
<b>60</b>	18.585	18.012	19.561	17.787	19.079
<b>65</b>	11.008	13.107	11.691	11.929	11.922
<b>70</b>	7.414	8.243	7.196	7.723	9.020
<b>75</b>	5.737	5.766	5.370	4.951	4.307
<b>80</b>	3.125	3.533	3.402	3.400	2.676
<b>85</b>	1.746	1.688	2.291	1.679	2.353
<b>90</b>	1.574	0.703	0.431	0.344	0.678

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	176.54	N.A.	32.80
0-30	329.27	N.A.	61.20
0-40	435.60	N.A.	80.90
0-60	518.02	N.A.	96.20
0-80	536.22	N.A.	99.60
0-90	538.35	N.A.	100.00
10-90	492.56	N.A.	91.50
20-40	259.06	N.A.	48.10
20-50	314.95	N.A.	58.50
40-70	94.89	N.A.	17.60
60-80	18.20	N.A.	3.40
70-80	5.73	N.A.	1.10
80-90	2.13	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	538.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.79
10-20	130.75
20-30	152.73
30-40	106.33
40-50	55.90
50-60	26.52
60-70	12.47
70-80	5.73
80-90	2.13
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

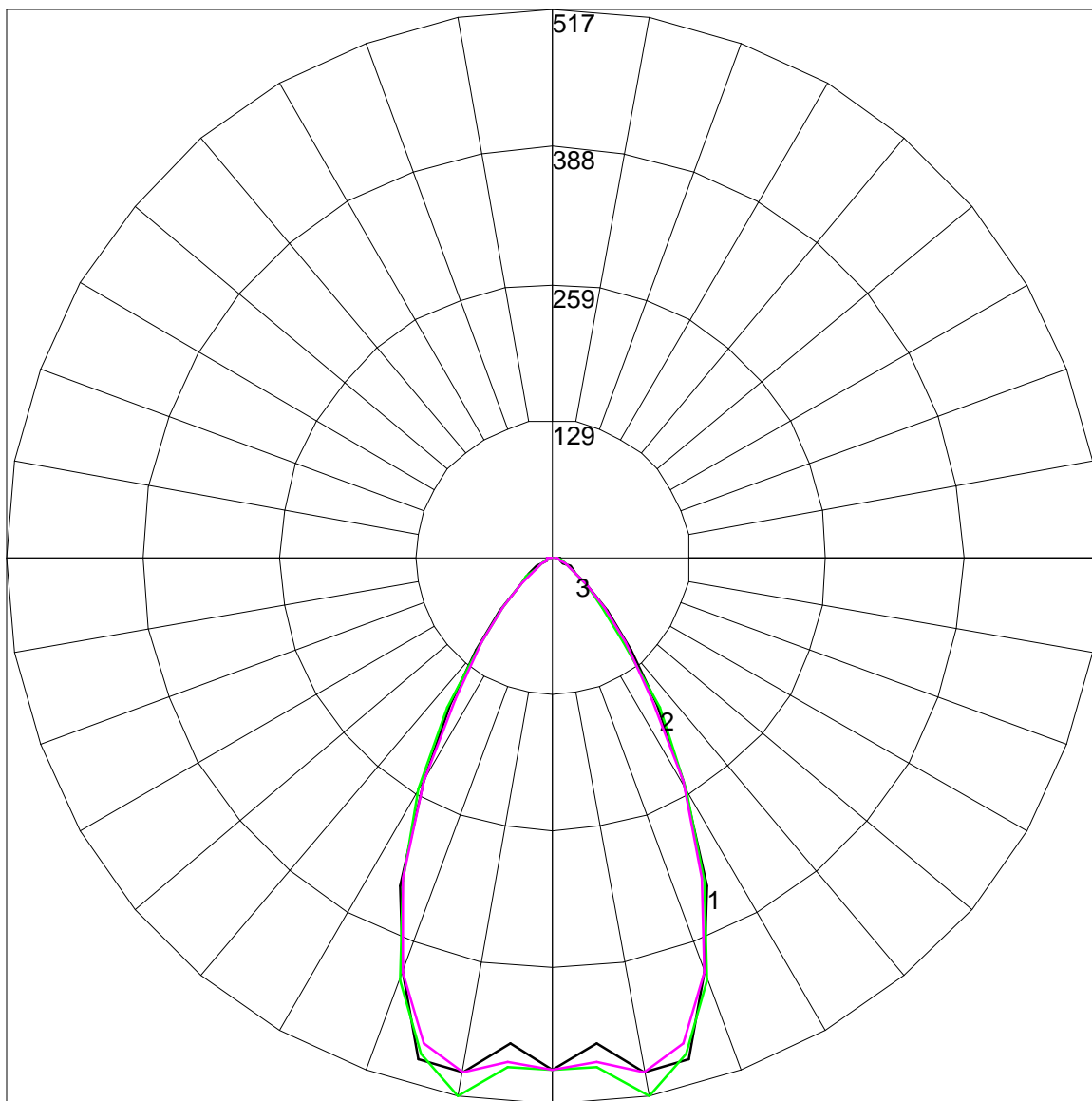
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	92	89	92	90	87	90	87	85	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70
5	89	79	73	68	87	79	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 = 517.09 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)