

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP6ES-20L35KDX-AR6ES-SGXF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.0 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Mon 9/25/2017

[UPDATE] Tue 9/26/2017

[TEST] SP-00562_1

[MANUFAC] Spectrum Lighting

[LUMCAT] SP6ES-20L-35K-DX / AR6ES-SG-xF

[LUMINAIRE] Nom. 6" Aperture, LED Downlight

[OTHER] Semi-Diffuse clear anodized, open aperture

[OTHER] Any flange finish

[OTHER] 52.4 Deg. Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, 3500K CCT

[OTHER] Fully regressed lensed, light emitting surface

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985

[OTHER] This report prepared by Spectrum Lighting, Preliminary

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	19.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3583	3592	3502
55	758	760	746
65	469	491	521
75	286	360	351
85	214	176	214

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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>	<u>202.5</u>
0	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11
5	2229.05	2239.49	2255.31	2211.86	2205.03	2211.86	2255.31	2239.49	2229.05	2239.49
10	2064.82	2108.89	2106.90	2098.36	2100.99	2098.36	2106.90	2108.89	2064.82	2108.89
15	1920.90	1926.13	1910.69	1908.58	1913.46	1908.58	1910.69	1926.13	1920.90	1926.13
20	1615.85	1627.34	1624.91	1625.72	1637.99	1625.72	1624.91	1627.34	1615.85	1627.34
25	1234.74	1227.11	1232.27	1228.33	1240.01	1228.33	1232.27	1227.11	1234.74	1227.11
30	802.12	803.58	800.58	802.31	803.98	802.31	800.58	803.58	802.12	803.58
35	441.30	430.08	435.21	438.73	445.59	438.73	435.21	430.08	441.30	430.08
40	188.52	190.58	191.64	189.13	188.33	189.13	191.64	190.58	188.52	190.58
45	46.26	43.85	46.38	45.07	45.21	45.07	46.38	43.85	46.26	43.85
50	12.21	11.38	10.92	11.77	11.55	11.77	10.92	11.38	12.21	11.38
55	7.94	7.44	7.96	7.64	7.81	7.64	7.96	7.44	7.94	7.44
60	6.07	5.06	5.58	5.57	6.13	5.57	5.58	5.06	6.07	5.06
65	3.62	3.60	3.79	3.79	4.02	3.79	3.79	3.60	3.62	3.60
70	2.86	2.80	2.47	2.65	2.31	2.65	2.47	2.80	2.86	2.80
75	1.35	1.67	1.70	1.59	1.66	1.59	1.70	1.67	1.35	1.67
80	0.71	0.72	0.91	1.02	0.90	1.02	0.91	0.72	0.71	0.72
85	0.34	0.26	0.28	0.26	0.34	0.26	0.28	0.26	0.34	0.26
90	0.17	0.10	0.05	0.03	0.03	0.03	0.05	0.10	0.17	0.10

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11	2264.11
5	2255.31	2211.86	2205.03	2211.86	2255.31	2239.49	2229.05
10	2106.90	2098.36	2100.99	2098.36	2106.90	2108.89	2064.82
15	1910.69	1908.58	1913.46	1908.58	1910.69	1926.13	1920.90
20	1624.91	1625.72	1637.99	1625.72	1624.91	1627.34	1615.85
25	1232.27	1228.33	1240.01	1228.33	1232.27	1227.11	1234.74
30	800.58	802.31	803.98	802.31	800.58	803.58	802.12
35	435.21	438.73	445.59	438.73	435.21	430.08	441.30
40	191.64	189.13	188.33	189.13	191.64	190.58	188.52
45	46.38	45.07	45.21	45.07	46.38	43.85	46.26
50	10.92	11.77	11.55	11.77	10.92	11.38	12.21
55	7.96	7.64	7.81	7.64	7.96	7.44	7.94
60	5.58	5.57	6.13	5.57	5.58	5.06	6.07
65	3.79	3.79	4.02	3.79	3.79	3.60	3.62
70	2.47	2.65	2.31	2.65	2.47	2.80	2.86
75	1.70	1.59	1.66	1.59	1.70	1.67	1.35
80	0.91	1.02	0.90	1.02	0.91	0.72	0.71
85	0.28	0.26	0.34	0.26	0.28	0.26	0.34
90	0.05	0.03	0.03	0.03	0.05	0.10	0.17

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	738.70	N.A.	44.70
0-30	1295.76	N.A.	78.50
0-40	1582.83	N.A.	95.90
0-60	1645.1	N.A.	99.60
0-80	1650.75	N.A.	100.00
0-90	1651.16	N.A.	100.00
10-90	1442.52	N.A.	87.40
20-40	844.12	N.A.	51.10
20-50	899.14	N.A.	54.50
40-70	66.15	N.A.	4.00
60-80	5.65	N.A.	0.30
70-80	1.77	N.A.	0.10
80-90	0.41	N.A.	0.00
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	1651.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.64
10-20	530.06
20-30	557.06
30-40	287.07
40-50	55.02
50-60	7.25
60-70	3.88
70-80	1.77
80-90	0.41
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

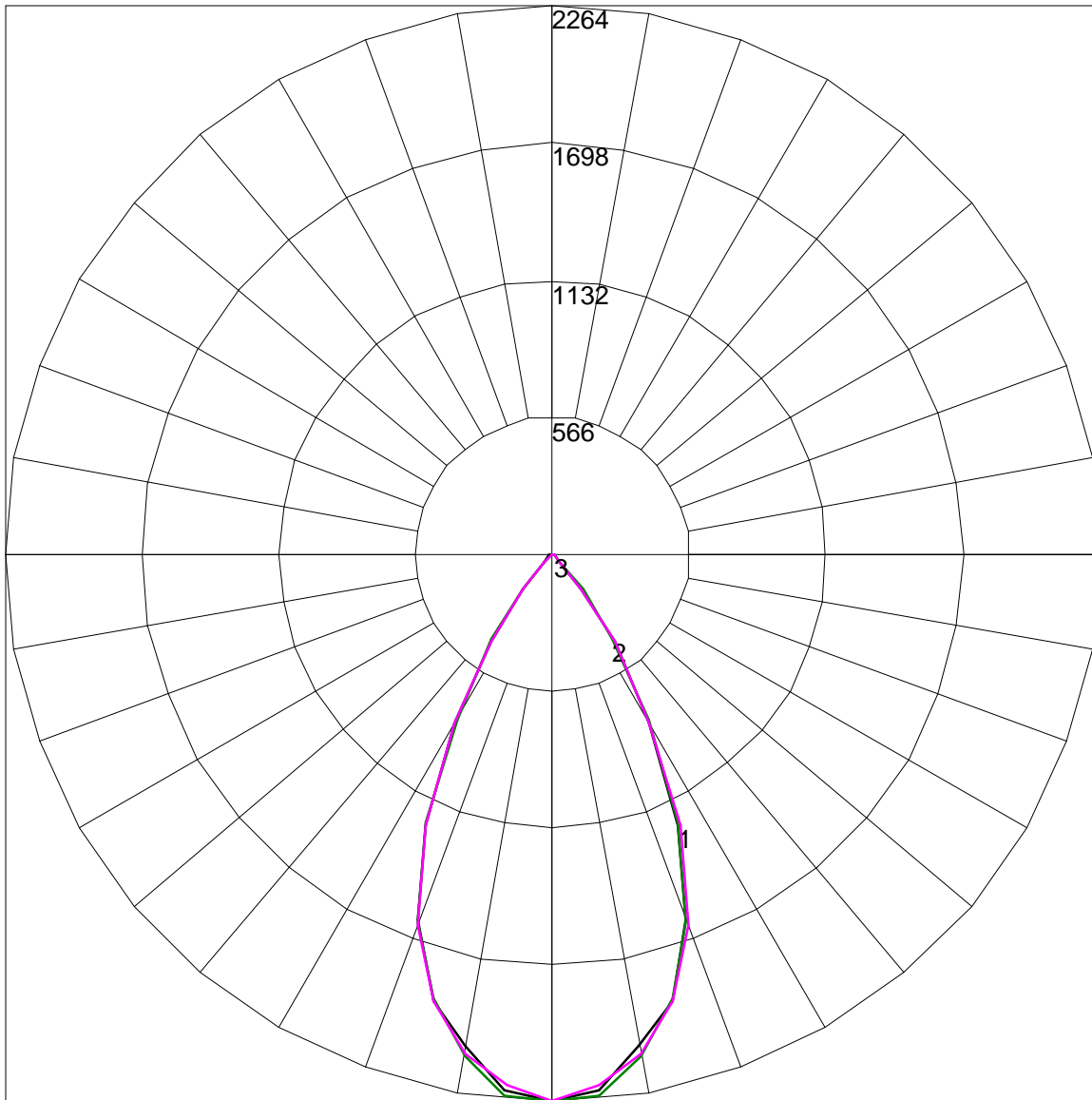
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	91	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 2264.11 Located At Horizontal Angle = 0, Vertical Angle = 0

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

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)