

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-20LXXKNDE1-SD4XMWGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4XT-20L-xxK-ND-E1-SD4x-MW-GLX

[LUMINAIRE] 4" Square, Downlight, Narrow Beam

[TRIM] Matte White, regressed clear glass Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFI4, SDFO4, SDZI4, and SDZO4 series

[OTHER] For Trims: SD4F and SD4N series

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 50L report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1667
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
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	4410	5026	4393
55	5256	5351	5052
65	5113	6098	5612
75	6079	6011	6088
85	6478	6358	5282

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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>
0	6519.268	6519.268	6519.268	6519.268	6519.268
5	5758.084	5782.344	5794.472	5758.280	5870.072
10	4056.180	4111.336	4107.500	4110.012	4137.820
15	2282.372	2285.124	2287.980	2281.388	2277.588
20	1025.980	1030.588	1042.428	1026.180	1031.100
25	616.680	669.796	698.132	666.016	605.944
30	202.616	358.676	570.628	350.148	202.236
35	48.236	83.684	279.380	84.560	45.840
40	33.424	37.964	65.484	38.896	33.460
45	32.212	34.296	36.716	33.684	32.092
50	31.024	32.124	34.328	32.148	30.340
55	31.144	30.520	31.704	31.504	29.932
60	26.792	27.756	28.740	27.584	26.832
65	22.320	24.768	26.620	26.100	24.500
70	21.644	22.844	22.292	23.036	21.364
75	16.252	17.384	16.072	17.192	16.276
80	10.536	11.548	11.440	11.916	10.848
85	5.832	5.616	5.724	5.624	4.756
90	2.012	1.740	1.580	1.676	0.956

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1153.36	N.A.	69.20
0-30	1461.52	N.A.	87.70
0-40	1562.25	N.A.	93.70
0-60	1617.54	N.A.	97.00
0-80	1660.23	N.A.	99.60
0-90	1666.81	N.A.	100.00
10-90	1165.75	N.A.	69.90
20-40	408.89	N.A.	24.50
20-50	436.81	N.A.	26.20
40-70	80.22	N.A.	4.80
60-80	42.69	N.A.	2.60
70-80	17.76	N.A.	1.10
80-90	6.58	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	1666.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	501.05
10-20	652.30
20-30	308.16
30-40	100.73
40-50	27.92
50-60	27.37
60-70	24.94
70-80	17.76
80-90	6.58
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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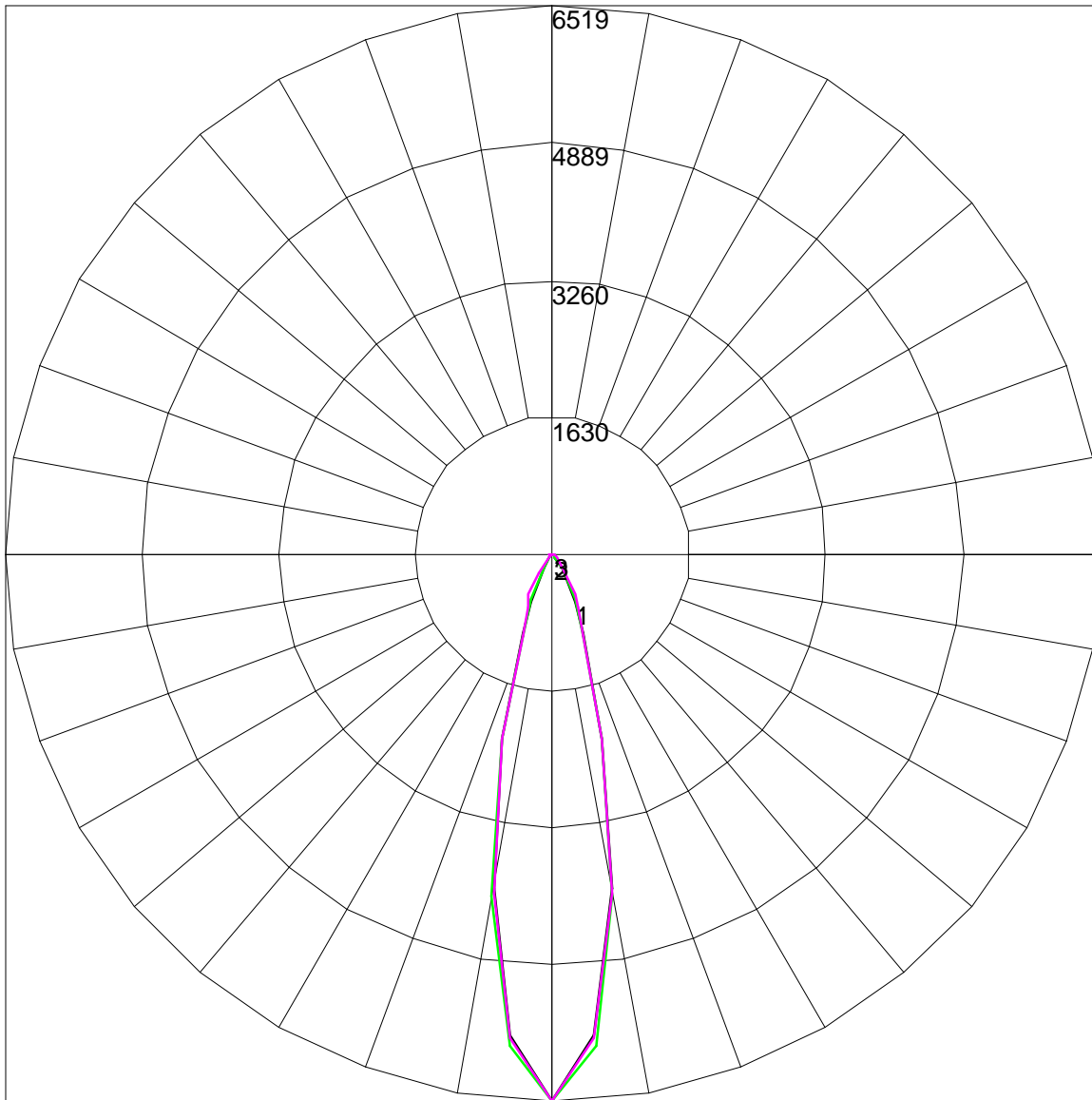
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	88	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76
7	92	84	79	76	90	84	79	76	82	78	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67

POLAR GRAPH



Maximum Candela = 6519.268 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)