

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-20LXXKXNE1-SD4XMWGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Fri Aug 05 2016

[UPDATE] Thu Sep 29 2016

[TEST] SP-00487_4

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 4" Square, Downlight, Xtra Narrow Beam

[TRIM] Matte White, regressed clear glass Lens

[LAMP] N/A, 9mm, 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.20
Spacing Criterion (90-270)	0.20
Spacing Criterion (Diagonal)	0.22
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

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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>
0	16182.24	16182.24	16182.24	16182.24	16182.24
5	9032.43	9075.88	9124.50	9131.06	9248.69
10	1365.07	1790.68	2193.10	1897.40	1580.94
15	611.69	627.02	649.05	615.83	615.13
20	503.21	511.28	515.26	505.94	495.67
25	438.59	447.25	467.22	451.20	439.22
30	370.21	388.88	402.60	382.85	373.02
35	251.35	270.54	278.27	271.22	259.30
40	38.66	46.41	51.07	46.54	40.75
45	11.90	13.11	13.33	12.45	11.91
50	9.26	10.36	11.14	10.07	9.71
55	8.43	9.09	9.47	8.96	7.39
60	7.04	7.93	8.99	7.92	8.11
65	7.14	7.71	7.60	7.56	6.99
70	6.41	6.69	6.57	6.88	7.03
75	4.44	5.26	5.40	5.45	5.58
80	3.14	3.72	3.76	3.90	3.79
85	2.01	2.16	1.99	2.20	1.66
90	0.43	0.56	0.44	0.51	0.60

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	934.10	N.A.	70.30
0-30	1140.7	N.A.	85.90
0-40	1289.72	N.A.	97.10
0-60	1313.29	N.A.	98.90
0-80	1326.22	N.A.	99.80
0-90	1328.48	N.A.	100.00
10-90	634.08	N.A.	47.70
20-40	355.62	N.A.	26.80
20-50	371.11	N.A.	27.90
40-70	30.96	N.A.	2.30
60-80	12.93	N.A.	1.00
70-80	5.54	N.A.	0.40
80-90	2.26	N.A.	0.20
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	1328.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	694.41
10-20	239.70
20-30	206.60
30-40	149.02
40-50	15.50
50-60	8.08
60-70	7.38
70-80	5.54
80-90	2.26
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

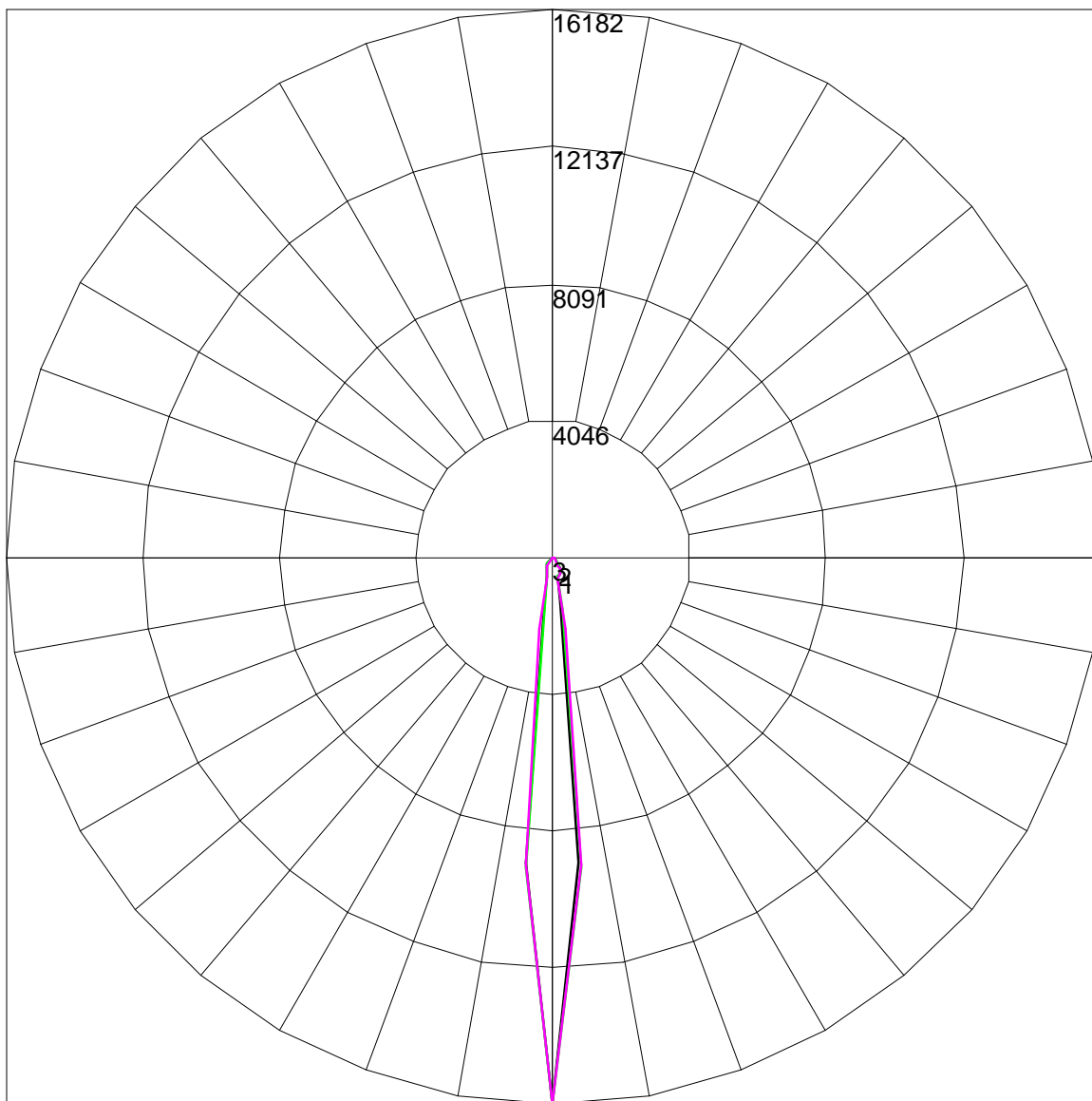
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	91	88	93	90	87	91	89	86	90	88	86	85
6	98	92	88	85	97	92	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80
8	93	87	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

POLAR GRAPH



Maximum Candela = 16182.24 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)