

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXNE1-SD4XMWGLX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Fri Aug 05 2016

[UPDATE] Thu Sep 29 2016

[TEST] SP-00487\_4\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4XT-13L-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, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	864
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	20.4
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXNE1-SD4XMWGLX.IES****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

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXNE1-SD4XMWGLX.IES

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>	10518.456	10518.456	10518.456	10518.456	10518.456
<b>5</b>	5871.079	5899.322	5930.925	5935.189	6011.648
<b>10</b>	887.295	1163.942	1425.515	1233.310	1027.611
<b>15</b>	397.598	407.563	421.882	400.289	399.834
<b>20</b>	327.086	332.332	334.919	328.861	322.185
<b>25</b>	285.083	290.712	303.693	293.280	285.493
<b>30</b>	240.636	252.772	261.690	248.852	242.463
<b>35</b>	163.377	175.851	180.875	176.293	168.545
<b>40</b>	25.129	30.166	33.195	30.251	26.487
<b>45</b>	7.735	8.521	8.664	8.092	7.741
<b>50</b>	6.019	6.734	7.241	6.545	6.311
<b>55</b>	5.479	5.908	6.155	5.824	4.803
<b>60</b>	4.576	5.154	5.843	5.148	5.271
<b>65</b>	4.641	5.011	4.940	4.914	4.543
<b>70</b>	4.166	4.348	4.270	4.472	4.569
<b>75</b>	2.886	3.419	3.510	3.542	3.627
<b>80</b>	2.041	2.418	2.444	2.535	2.463
<b>85</b>	1.306	1.404	1.293	1.430	1.079
<b>90</b>	0.279	0.364	0.286	0.331	0.390

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXNE1-SD4XMWGLX.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	607.17	N.A.	70.30
0-30	741.46	N.A.	85.90
0-40	838.32	N.A.	97.10
0-60	853.64	N.A.	98.90
0-80	862.04	N.A.	99.80
0-90	863.51	N.A.	100.00
10-90	412.15	N.A.	47.70
20-40	231.15	N.A.	26.80
20-50	241.22	N.A.	27.90
40-70	20.12	N.A.	2.30
60-80	8.40	N.A.	1.00
70-80	3.60	N.A.	0.40
80-90	1.47	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	863.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	451.36
10-20	155.80
20-30	134.29
30-40	96.86
40-50	10.07
50-60	5.25
60-70	4.80
70-80	3.60
80-90	1.47
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

# IES INDOOR REPORT

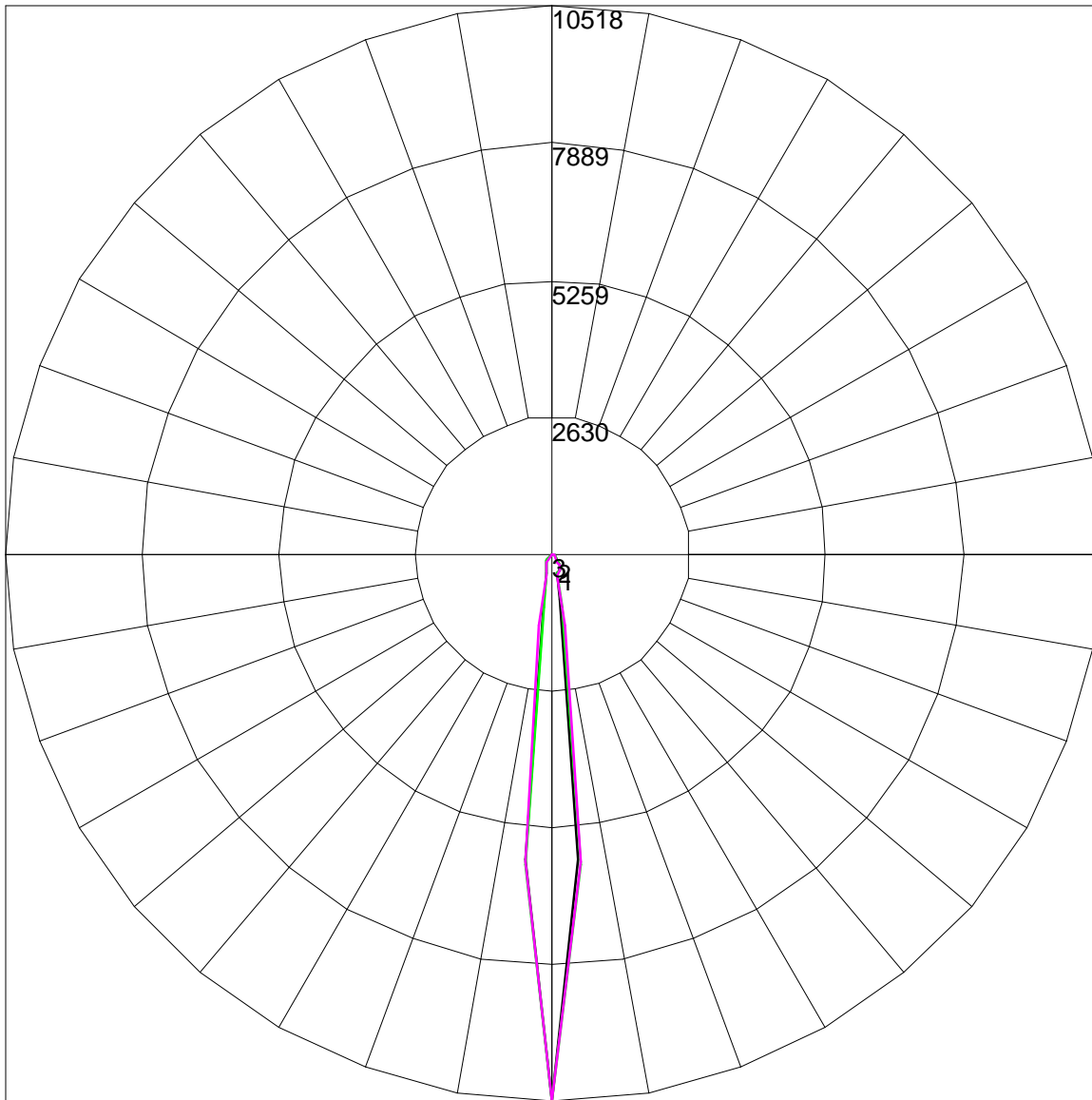
PHOTOMETRIC FILENAME : SDXX4XT-13LXXKXNE1-SD4XMWGLX.IES

## 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	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	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	88	86	90	88	86	84
6	98	92	88	85	97	91	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	92	86	83	80	86	82	80	85	82	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	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 = 10518.456 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)