

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SDXX4XT-20LXXKMDE1-SD4XMWSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Sep 30 2015

[UPDATE] Wed Jul 13 2016

[TEST] SP-00487_1_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx4LEDXT-20L-xxK-MD-E1-SD4x-MW-SOX

[LUMINAIRE] 4" Square, Downlight, Medium Beam

[TRIM] Matte White, regressed Solite 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	1373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.72
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	10966	10263	10994
55	11977	11404	11983
65	12366	11675	12108
75	10148	10688	10702
85	9405	9739	9694

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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	2550.668	2550.668	2550.668	2550.668	2550.668
5	2349.236	2395.772	2402.356	2365.028	2407.624
10	1909.568	1925.960	1925.152	1932.512	1930.136
15	1382.364	1419.136	1464.476	1421.880	1387.816
20	1058.408	1111.792	1199.492	1108.824	1062.944
25	810.948	883.248	950.136	890.216	826.788
30	321.496	469.000	714.584	475.208	323.280
35	122.584	155.592	366.068	154.688	124.504
40	84.356	85.616	105.816	82.484	89.084
45	80.100	78.628	74.964	76.388	80.308
50	77.052	72.848	71.820	72.632	78.152
55	70.968	67.816	67.568	66.860	71.000
60	64.488	62.096	61.312	62.224	63.776
65	53.988	53.568	50.968	53.884	52.860
70	39.680	40.528	41.584	40.296	38.684
75	27.132	30.032	28.576	29.120	28.612
80	17.556	18.520	19.152	18.248	16.256
85	8.468	8.912	8.768	8.852	8.728
90	2.524	2.540	2.244	2.336	2.888

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.43	N.A.	45.30
0-30	1006.56	N.A.	73.30
0-40	1157.35	N.A.	84.30
0-60	1280.08	N.A.	93.20
0-80	1362.49	N.A.	99.20
0-90	1372.9	N.A.	100.00
10-90	1159.66	N.A.	84.50
20-40	535.92	N.A.	39.00
20-50	597.54	N.A.	43.50
40-70	174.42	N.A.	12.70
60-80	82.41	N.A.	6.00
70-80	30.72	N.A.	2.20
80-90	10.41	N.A.	0.80
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	1372.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.24
10-20	408.20
20-30	385.13
30-40	150.79
40-50	61.62
50-60	61.10
60-70	51.69
70-80	30.72
80-90	10.41
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

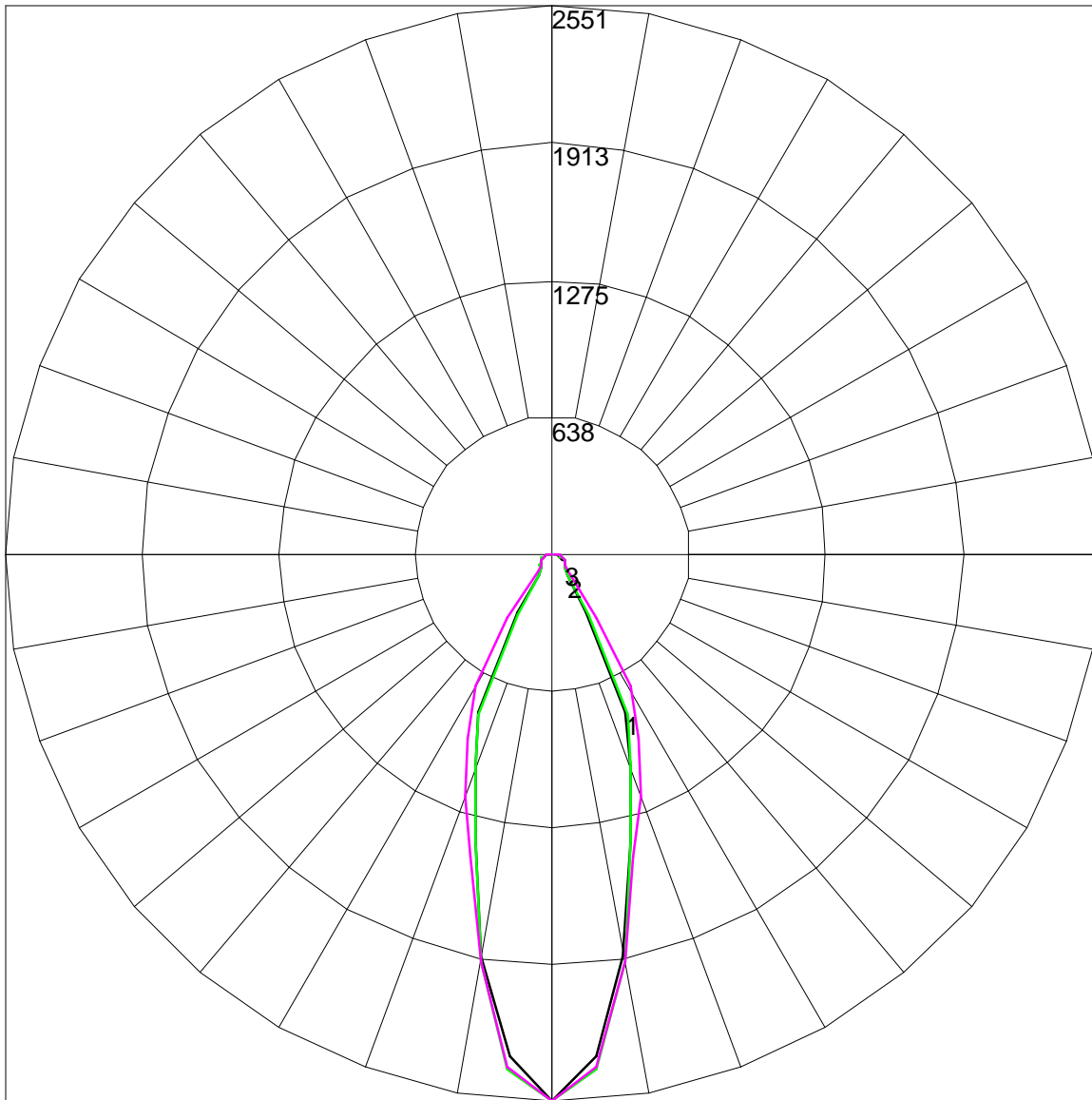
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	78	72	67	85	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	67	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	56	53	52

POLAR GRAPH



Maximum Candela = 2550.668 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)