

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDXX4XT-10LXXKXWE1-RD4XSGSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Tue Jul 14 2015

[UPDATE] Thu Oct 22 2015

[TEST] SP-00480\_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDxx4LEDXT-10L-xxK-XW-E1-RD4x-SG-SOX

[LUMINAIRE] 4" aperture, Xtra Wide Beam

[TRIM] Semi-diffuse, regressed Solite Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: RDFI4, RDFO4, RDZI4, and RDZO4 series

[OTHER] For Trims: RD4F and RD4N series with SOX or SOW

[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	705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.74
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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**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

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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>
<b>0</b>	1100.739	1100.739	1100.739	1100.739	1100.739
<b>5</b>	1069.054	1061.537	1064.785	1064.924	1057.310
<b>10</b>	988.114	990.609	996.683	991.987	1001.375
<b>15</b>	858.221	852.834	852.145	852.004	854.071
<b>20</b>	679.348	678.742	680.806	679.962	684.249
<b>25</b>	484.204	488.112	484.314	483.986	486.709
<b>30</b>	290.299	288.317	289.728	288.724	289.182
<b>35</b>	138.298	138.864	138.086	136.905	136.586
<b>40</b>	66.421	68.679	67.785	67.382	66.641
<b>45</b>	39.816	39.773	39.791	39.239	38.731
<b>50</b>	24.092	23.751	23.874	23.971	23.471
<b>55</b>	14.535	13.929	14.182	13.794	13.774
<b>60</b>	8.641	8.426	8.583	8.419	8.538
<b>65</b>	3.964	4.121	4.317	4.337	4.134
<b>70</b>	0.452	0.602	0.620	0.926	1.297
<b>75</b>	0.326	0.575	0.511	2.092	2.665
<b>80</b>	0.185	0.903	0.701	1.496	1.654
<b>85</b>	0.104	0.446	0.693	0.855	0.955
<b>90</b>	0.033	0.203	0.421	0.600	0.674

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	335.40	N.A.	47.60
0-30	555.70	N.A.	78.80
0-40	652.84	N.A.	92.60
0-60	698.92	N.A.	99.10
0-80	704.35	N.A.	99.90
0-90	705.07	N.A.	100.00
10-90	605.61	N.A.	85.90
20-40	317.44	N.A.	45.00
20-50	350.08	N.A.	49.70
40-70	50.42	N.A.	7.20
60-80	5.43	N.A.	0.80
70-80	1.08	N.A.	0.20
80-90	0.73	N.A.	0.10
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	705.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.46
10-20	235.94
20-30	220.30
30-40	97.14
40-50	32.64
50-60	13.44
60-70	4.35
70-80	1.08
80-90	0.73
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

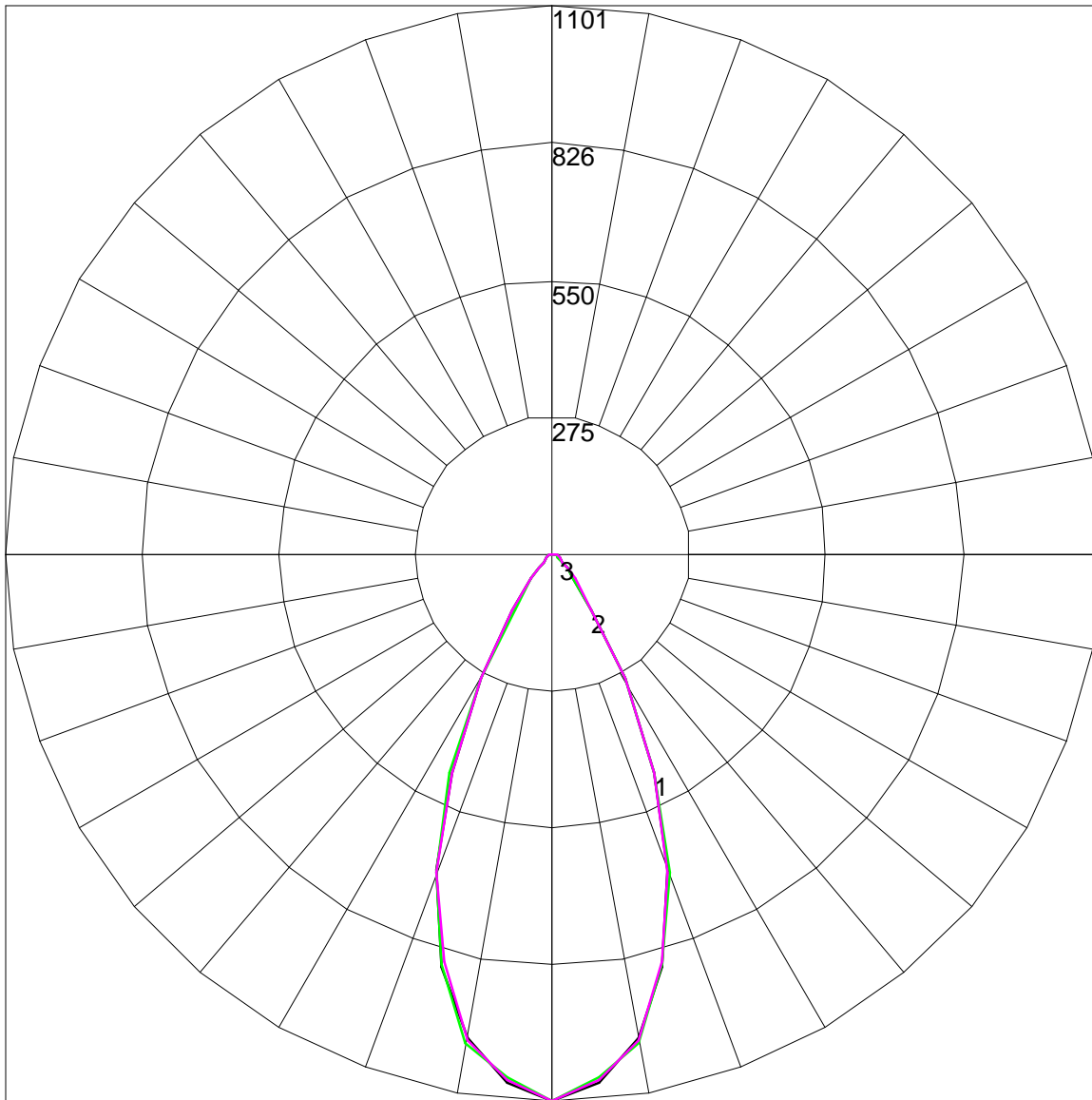
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	67	64	81	73	67	64	71	67	63	70	66	63	70	66	63	61
9	79	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	59	57	55

POLAR GRAPH



Maximum Candela = 1100.739 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)