

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDXX4XT-10LXXKXNE1-RD4XSGGLX.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-00480\_20\_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDxx4LEDXT-10L-xxK-XN-E1-RD4x-SG-GLX

[LUMINAIRE] 4" aperture, Xtra Narrow Beam

[TRIM] Semi-diffuse, regressed clear glass Lens

[LAMP] N/A, 9mm, 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 GLX or GLW

[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	634
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	14.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.20
Spacing Criterion (90-270)	0.22
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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**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>	7835.592	7835.592	7835.592	7835.592	7835.592
<b>5</b>	4389.129	4415.565	4395.797	4450.691	4515.447
<b>10</b>	691.644	877.750	1078.378	930.892	788.530
<b>15</b>	313.123	316.771	321.890	316.969	311.917
<b>20</b>	254.234	252.738	253.674	251.580	253.776
<b>25</b>	217.516	214.495	217.361	217.009	215.528
<b>30</b>	178.925	179.664	181.328	179.514	178.351
<b>35</b>	120.186	120.104	120.422	121.083	123.853
<b>40</b>	18.562	20.550	21.838	21.061	19.609
<b>45</b>	5.486	5.336	5.669	5.418	5.380
<b>50</b>	3.392	3.421	3.310	3.445	3.406
<b>55</b>	2.495	2.369	2.311	2.384	2.311
<b>60</b>	1.848	1.983	1.973	1.993	2.070
<b>65</b>	1.008	1.081	1.163	1.095	1.168
<b>70</b>	0.130	0.130	0.154	0.130	0.111
<b>75</b>	0.063	0.096	0.106	0.087	0.092
<b>80</b>	0.034	0.087	0.116	0.106	0.068
<b>85</b>	0.024	0.043	0.092	0.111	0.096
<b>90</b>	0.000	0.005	0.043	0.063	0.082

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	457.05	N.A.	72.00
0-30	556.41	N.A.	87.70
0-40	624.30	N.A.	98.40
0-60	633.18	N.A.	99.80
0-80	634.35	N.A.	100.00
0-90	634.43	N.A.	100.00
10-90	296.95	N.A.	46.80
20-40	167.25	N.A.	26.40
20-50	173.87	N.A.	27.40
40-70	9.94	N.A.	1.60
60-80	1.17	N.A.	0.20
70-80	0.11	N.A.	0.00
80-90	0.08	N.A.	0.00
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	634.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	337.48
10-20	119.57
20-30	99.36
30-40	67.89
40-50	6.62
50-60	2.26
60-70	1.06
70-80	0.11
80-90	0.08
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

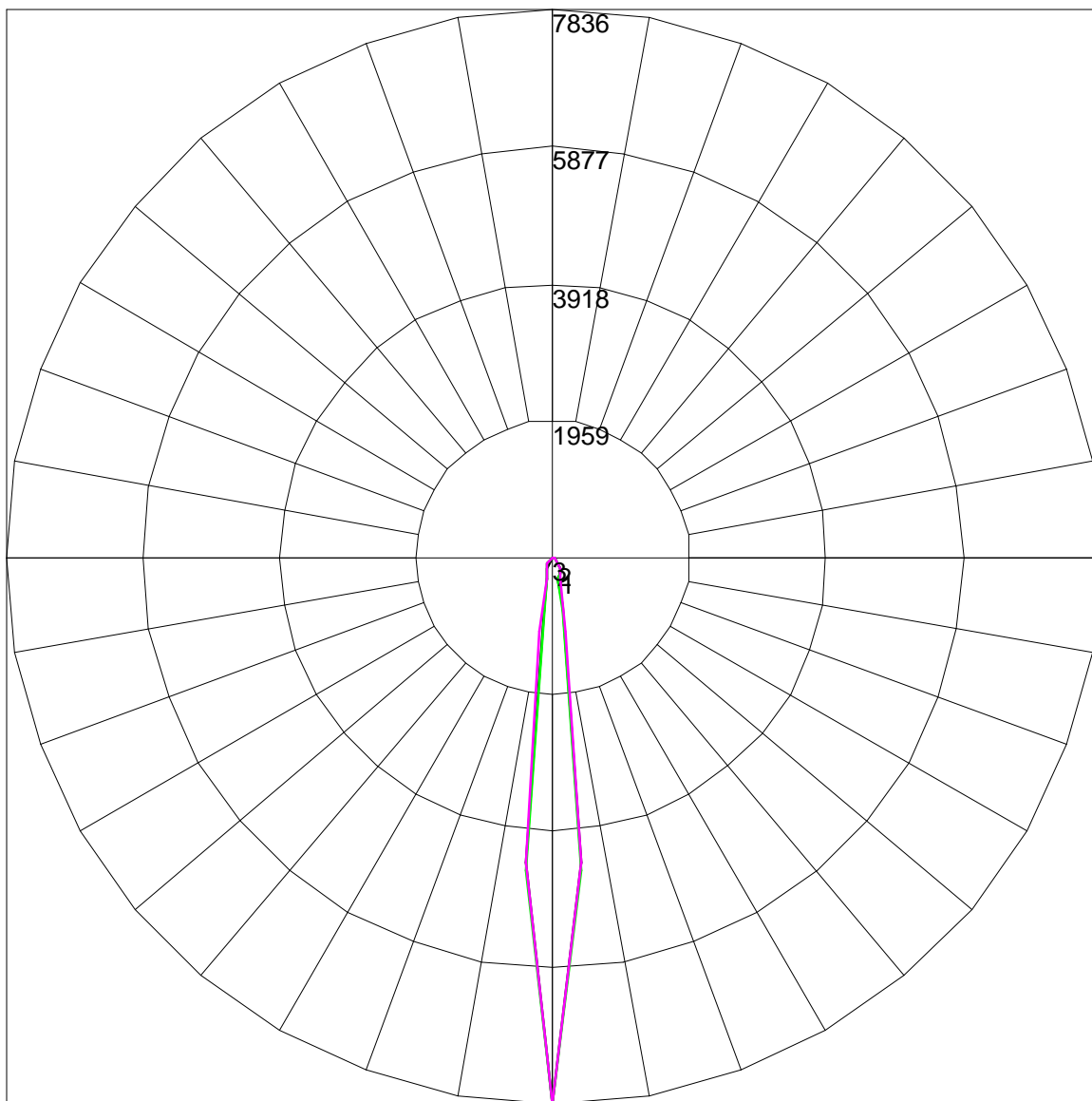
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	96	95	94
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	95	94	92	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	86	85	84
7	97	91	87	84	96	90	86	84	89	86	83	88	85	83	87	84	82	81
8	94	88	84	81	93	88	84	81	87	83	81	86	83	81	85	82	80	80
9	92	86	82	79	91	86	82	79	85	81	79	84	81	79	83	81	79	78
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76

POLAR GRAPH



Maximum Candela = 7835.592 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)