

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-13LXXKWDE1-RD4FMWSO-FACY2.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Fri Jun 10 2016

[UPDATE] Wed Aug 31 2016

[TEST] SP-00480\_17\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-13L-xxK-WD-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9237	9350	9248
55	7078	7104	7197
65	5468	5587	5516
75	4453	4441	4441
85	3424	3546	3451

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1140.366	1140.366	1140.366	1140.366	1140.366
<b>5</b>	1102.452	1100.666	1098.224	1092.395	1103.330
<b>10</b>	1082.595	1073.585	1071.732	1075.426	1067.314
<b>15</b>	876.578	868.578	864.792	869.858	869.983
<b>20</b>	543.822	545.115	543.444	545.061	542.515
<b>25</b>	295.585	297.848	299.797	296.588	298.159
<b>30</b>	185.806	184.600	185.303	183.729	181.274
<b>35</b>	120.093	122.095	120.306	121.694	122.285
<b>40</b>	101.546	102.529	103.184	101.533	103.009
<b>45</b>	86.748	86.880	87.809	87.228	86.846
<b>50</b>	75.337	75.577	74.517	75.297	74.622
<b>55</b>	62.900	63.214	63.126	63.498	63.957
<b>60</b>	51.959	53.482	52.587	52.394	51.894
<b>65</b>	44.357	44.620	45.323	45.086	44.745
<b>70</b>	37.296	38.133	38.369	37.630	37.897
<b>75</b>	31.575	31.406	31.491	31.612	31.491
<b>80</b>	25.777	26.040	25.797	25.908	25.746
<b>85</b>	20.046	20.586	20.755	20.522	20.201
<b>90</b>	18.422	17.928	17.365	17.783	17.807

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Zone	Lumens	%Lamp	%Fixt
0-20	336.22	N.A.	42.40
0-30	485.53	N.A.	61.20
0-40	567.86	N.A.	71.50
0-60	692.64	N.A.	87.20
0-80	770.82	N.A.	97.10
0-90	793.90	N.A.	100.00
10-90	689.42	N.A.	86.80
20-40	231.64	N.A.	29.20
20-50	299.53	N.A.	37.70
40-70	169.45	N.A.	21.30
60-80	78.18	N.A.	9.80
70-80	33.51	N.A.	4.20
80-90	23.09	N.A.	2.90
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	793.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.48
10-20	231.74
20-30	149.31
30-40	82.33
40-50	67.89
50-60	56.89
60-70	44.67
70-80	33.51
80-90	23.09
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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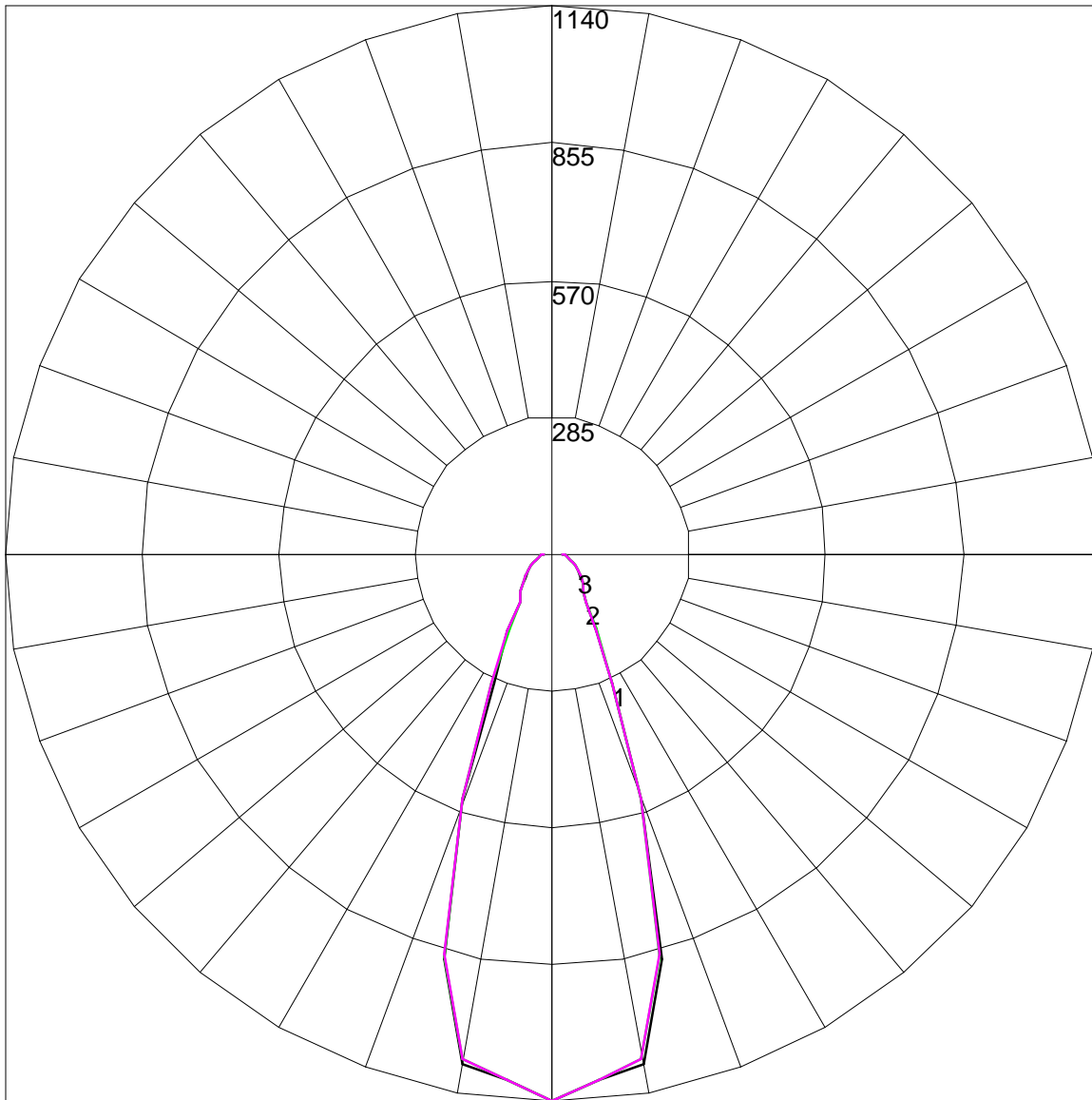
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48
10	68	58	52	48	67	57	52	48	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 1140.366 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)