

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : RDFO4LEDXT-13LXXKXWE1-RD4FMWSO-FACY2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00480\_18\_M-13L

[MANUFAC] Spectrum Lighting

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

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

[OTHER] Xtra 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 report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	836
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.66
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	8914	8976	8999
55	6731	6737	6653
65	5010	5062	5050
75	4201	4037	4002
85	3141	3177	3337

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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>	1165.595	1165.595	1165.595	1165.595	1165.595
<b>5</b>	1142.895	1134.230	1134.709	1144.692	1169.006
<b>10</b>	1089.724	1089.214	1095.313	1091.777	1076.709
<b>15</b>	935.206	928.121	926.497	928.081	932.039
<b>20</b>	620.000	619.146	616.975	620.000	618.390
<b>25</b>	370.069	366.813	369.927	365.635	367.208
<b>30</b>	231.642	234.935	232.969	233.793	231.824
<b>35</b>	125.334	126.506	125.719	125.614	124.942
<b>40</b>	99.179	100.391	99.868	99.412	100.307
<b>45</b>	83.577	83.209	84.158	83.034	84.374
<b>50</b>	69.792	70.329	70.964	70.792	69.988
<b>55</b>	59.719	59.587	59.776	59.611	59.033
<b>60</b>	49.439	49.287	48.862	48.926	48.875
<b>65</b>	40.585	41.389	41.004	41.122	40.909
<b>70</b>	34.526	34.689	34.955	34.523	34.999
<b>75</b>	29.745	28.711	28.586	28.728	28.336
<b>80</b>	23.609	23.193	23.723	23.413	23.095
<b>85</b>	18.364	18.617	18.574	18.847	19.512
<b>90</b>	15.507	16.250	15.142	15.534	15.950

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Zone	Lumens	%Lamp	%Fixt
0-20	354.78	N.A.	42.40
0-30	534.33	N.A.	63.90
0-40	624.84	N.A.	74.80
0-60	743.34	N.A.	88.90
0-80	815.01	N.A.	97.50
0-90	835.89	N.A.	100.00
10-90	728.44	N.A.	87.10
20-40	270.06	N.A.	32.30
20-50	335.17	N.A.	40.10
40-70	159.60	N.A.	19.10
60-80	71.66	N.A.	8.60
70-80	30.56	N.A.	3.70
80-90	20.88	N.A.	2.50
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	835.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.45
10-20	247.33
20-30	179.55
30-40	90.52
40-50	65.10
50-60	53.40
60-70	41.10
70-80	30.56
80-90	20.88
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

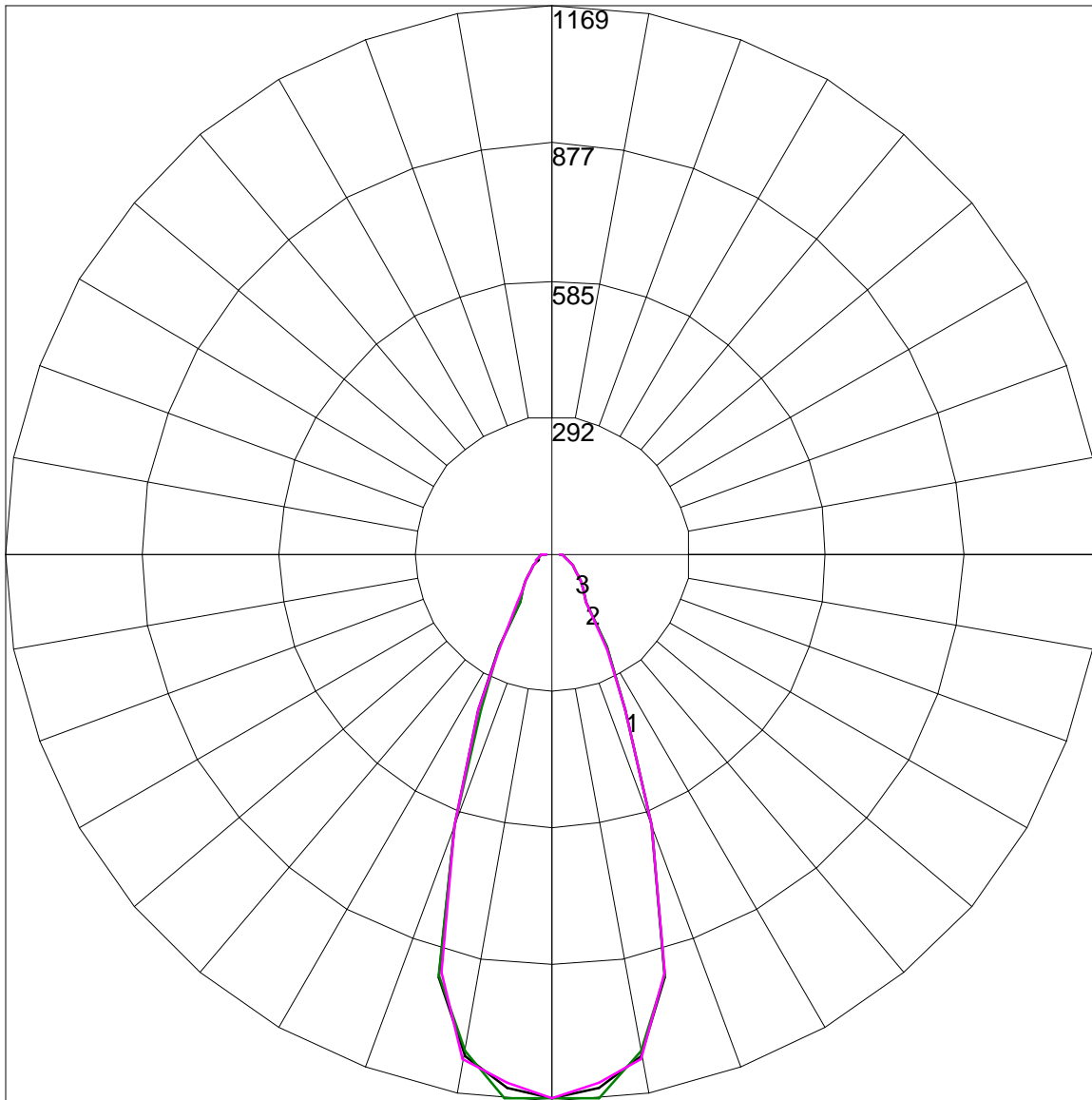
Effective Floor Cavity Reflectance 0.20

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	74
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55
8	76	65	59	54	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49
10	69	59	53	49	68	58	53	49	58	52	49	57	52	48	56	52	48	47

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## POLAR GRAPH



Maximum Candela = 1169.006 Located At Horizontal Angle = 90, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)