

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-40LXXKMDE1-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] Thu May 12 2016

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[TEST] SP-00480\_12

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-40L-xxK-MD-E1-RD4F-MW-SO-FACY2

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

[OTHER] Medium 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2321
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
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	24606	24652	24332
55	19042	19166	18943
65	14331	14567	14808
75	11671	11643	11174
85	8832	9008	8993

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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>	4033.07	4033.07	4033.07	4033.07	4033.07
<b>5</b>	3826.49	3779.34	3804.27	3777.94	3787.18
<b>10</b>	3258.10	3247.21	3249.22	3248.31	3279.62
<b>15</b>	2509.33	2522.73	2524.53	2539.46	2527.62
<b>20</b>	1611.07	1620.65	1619.54	1621.08	1608.83
<b>25</b>	895.34	895.90	904.51	889.76	895.21
<b>30</b>	551.23	553.22	555.27	546.31	552.66
<b>35</b>	377.21	375.76	375.03	371.88	371.72
<b>40</b>	282.09	281.45	283.23	281.27	281.73
<b>45</b>	231.08	232.64	231.51	229.73	228.50
<b>50</b>	203.26	197.86	197.32	200.94	196.92
<b>55</b>	169.21	167.87	170.32	172.61	168.33
<b>60</b>	142.28	140.67	141.32	141.23	140.84
<b>65</b>	116.25	117.52	118.16	117.82	120.12
<b>70</b>	101.65	101.41	98.38	99.94	98.49
<b>75</b>	82.75	82.46	82.55	83.35	79.23
<b>80</b>	65.83	67.35	66.97	66.49	67.31
<b>85</b>	51.70	53.56	52.73	52.72	52.64
<b>90</b>	45.15	42.95	44.25	43.23	43.68

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Zone	Lumens	%Lamp	%Fixt
0-20	1029.97	N.A.	44.40
0-30	1476.91	N.A.	63.60
0-40	1722.75	N.A.	74.20
0-60	2056.73	N.A.	88.60
0-80	2262.45	N.A.	97.50
0-90	2321.38	N.A.	100.00
10-90	1975.8	N.A.	85.10
20-40	692.79	N.A.	29.80
20-50	874.63	N.A.	37.70
40-70	452.13	N.A.	19.50
60-80	205.72	N.A.	8.90
70-80	87.56	N.A.	3.80
80-90	58.93	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	2321.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	345.59
10-20	684.38
20-30	446.94
30-40	245.85
40-50	181.85
50-60	152.13
60-70	118.16
70-80	87.56
80-90	58.93
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

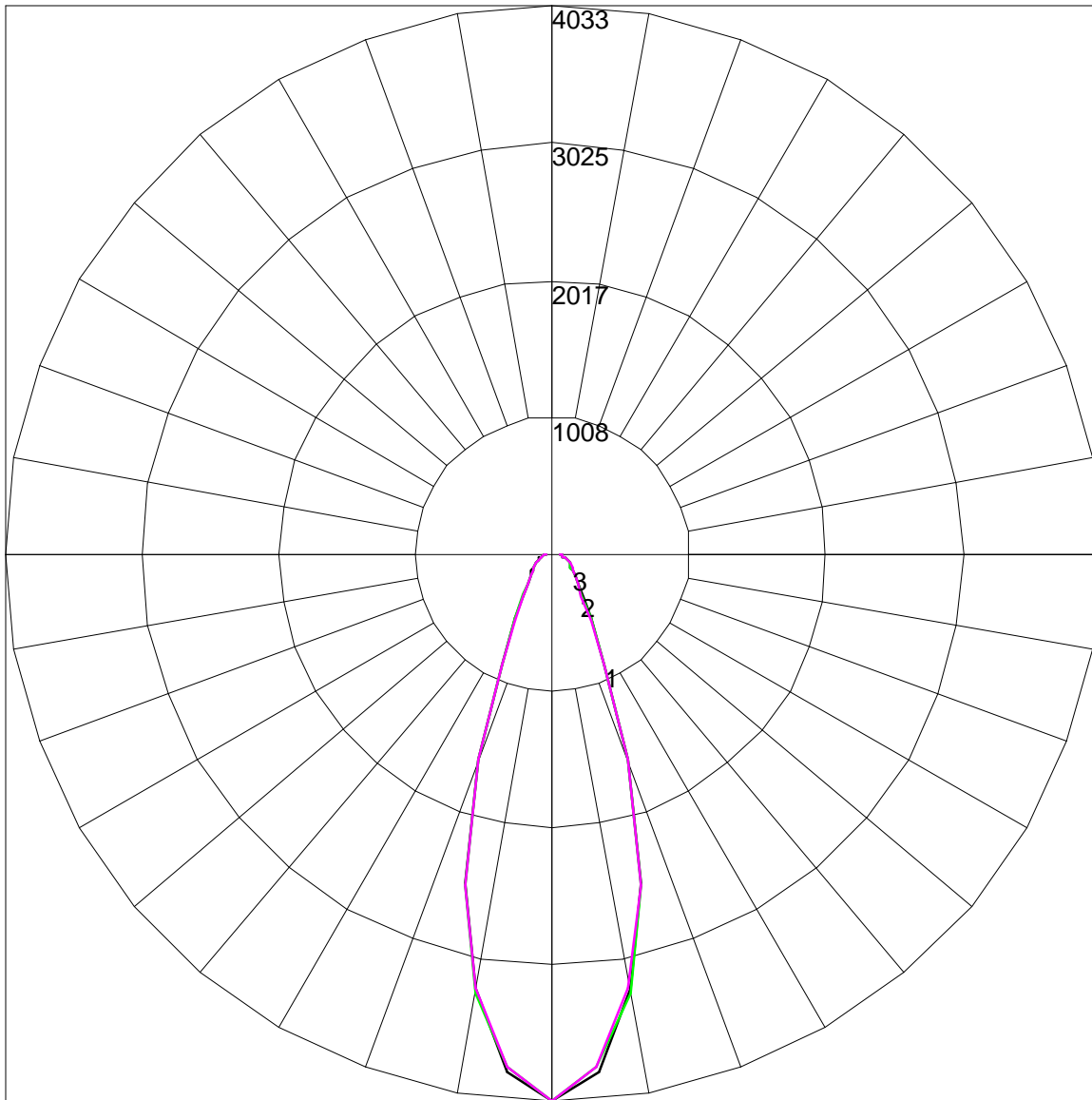
Effective Floor Cavity Reflectance 0.20

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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	75	74
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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PHOTOMETRIC FILENAME : RDF04LEDXT-40LXXKMDE1-RD4FMWSO-FACY2.IES

## POLAR GRAPH



Maximum Candela = 4033.07 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)