

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-40LXXKNDE1-RD4FMWSO-FACY4.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu May 12 2016

[UPDATE] Fri May 13 2016

[TEST] SP-00480\_13

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-40L-xxK-ND-E1-RD4F-MW-SO-FACY4

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

[OTHER] Narrow 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	2791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.33 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13819	14030	14058
55	11263	11175	11313
65	9219	9359	9273
75	7423	7491	7667
85	6108	6011	5921

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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>	8466.57	8466.57	8466.57	8466.57	8466.57
<b>5</b>	7872.57	7831.71	7819.50	7893.26	7867.49
<b>10</b>	6247.81	6302.78	6284.68	6286.68	6232.18
<b>15</b>	3492.38	3513.47	3495.70	3491.23	3541.47
<b>20</b>	1503.50	1509.37	1491.82	1494.57	1488.57
<b>25</b>	684.92	678.29	681.76	685.76	681.26
<b>30</b>	364.98	371.54	372.04	370.10	365.07
<b>35</b>	260.11	261.29	261.45	260.72	258.97
<b>40</b>	212.95	214.75	213.27	211.56	207.23
<b>45</b>	180.25	182.41	183.01	184.15	183.38
<b>50</b>	162.44	163.31	165.07	167.52	162.10
<b>55</b>	147.75	149.47	146.59	147.20	148.40
<b>60</b>	133.97	134.16	132.87	132.72	134.32
<b>65</b>	117.95	118.50	119.74	118.50	118.64
<b>70</b>	103.27	104.48	105.11	104.89	104.67
<b>75</b>	89.67	90.59	90.50	92.01	92.62
<b>80</b>	79.38	78.03	76.92	77.39	78.30
<b>85</b>	67.19	65.18	66.12	66.28	65.13
<b>90</b>	59.16	59.44	58.70	59.42	58.69

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Zone	Lumens	%Lamp	%Fixt
0-20	1693.23	N.A.	60.70
0-30	2055.00	N.A.	73.60
0-40	2226.78	N.A.	79.80
0-60	2503.11	N.A.	89.70
0-80	2717.31	N.A.	97.40
0-90	2790.61	N.A.	100.00
10-90	2089.96	N.A.	74.90
20-40	533.56	N.A.	19.10
20-50	676.94	N.A.	24.30
40-70	394.20	N.A.	14.10
60-80	214.20	N.A.	7.70
70-80	96.33	N.A.	3.50
80-90	73.30	N.A.	2.60
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	2790.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	700.65
10-20	992.57
20-30	361.78
30-40	171.78
40-50	143.38
50-60	132.94
60-70	117.88
70-80	96.33
80-90	73.30
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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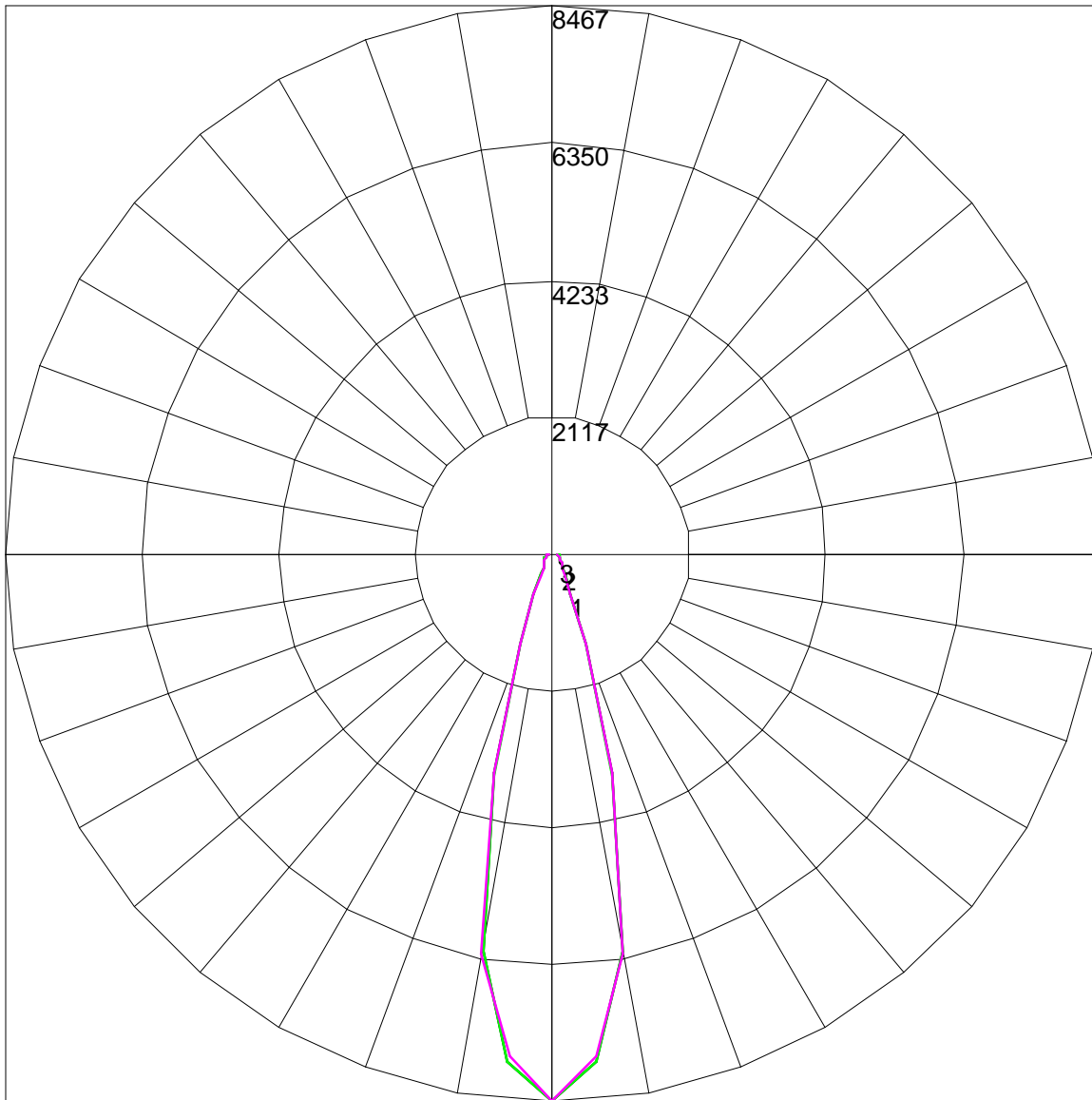
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	91
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64
8	82	73	68	64	81	73	68	64	72	67	64	71	66	63	70	66	63	62
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58

POLAR GRAPH



Maximum Candela = 8466.57 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)