

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKNDE1-RD6FMWSO-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)

[ISSUEDATE]

[TESTDATE] Fri May 13 2016

[UPDATE] Thu Jun 9 2016

[TEST] SP-00476\_22

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-50L-xxK-ND-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"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	4233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 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	9798	9714	10208
55	7584	7409	7522
65	6118	5911	5812
75	4723	4844	4780
85	4436	3958	4089

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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>	11607.61	11607.61	11607.61	11607.61	11607.61
<b>5</b>	10830.71	10851.89	10735.41	10909.36	10865.86
<b>10</b>	8956.96	8862.37	8960.20	8868.09	8983.35
<b>15</b>	6201.34	6157.75	6165.21	6167.33	6219.62
<b>20</b>	3678.96	3678.63	3712.65	3697.35	3675.72
<b>25</b>	1769.38	1759.82	1762.42	1769.94	1742.00
<b>30</b>	598.68	605.25	603.50	611.80	607.92
<b>35</b>	326.35	344.33	342.57	331.58	346.85
<b>40</b>	237.17	228.06	234.92	224.75	224.52
<b>45</b>	180.18	178.49	178.65	182.20	187.72
<b>50</b>	148.83	148.66	150.12	151.59	148.18
<b>55</b>	127.57	118.51	124.63	120.89	126.53
<b>60</b>	100.77	103.35	101.79	105.70	103.67
<b>65</b>	90.18	83.27	87.12	85.38	85.66
<b>70</b>	67.94	71.58	70.24	72.32	69.22
<b>75</b>	57.67	56.09	59.15	57.97	58.37
<b>80</b>	48.60	44.71	46.01	48.80	48.72
<b>85</b>	41.30	36.69	36.85	38.69	38.07
<b>90</b>	35.29	32.06	33.97	32.57	29.37

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Zone	Lumens	%Lamp	%Fixt
0-20	2683.19	N.A.	63.40
0-30	3554.82	N.A.	84.00
0-40	3788.77	N.A.	89.50
0-60	4043.06	N.A.	95.50
0-80	4190.34	N.A.	99.00
0-90	4232.81	N.A.	100.00
10-90	3257.93	N.A.	77.00
20-40	1105.58	N.A.	26.10
20-50	1248.38	N.A.	29.50
40-70	339.93	N.A.	8.00
60-80	147.28	N.A.	3.50
70-80	61.64	N.A.	1.50
80-90	42.46	N.A.	1.00
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	4232.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	974.88
10-20	1708.31
20-30	871.63
30-40	233.95
40-50	142.79
50-60	111.50
60-70	85.64
70-80	61.64
80-90	42.46
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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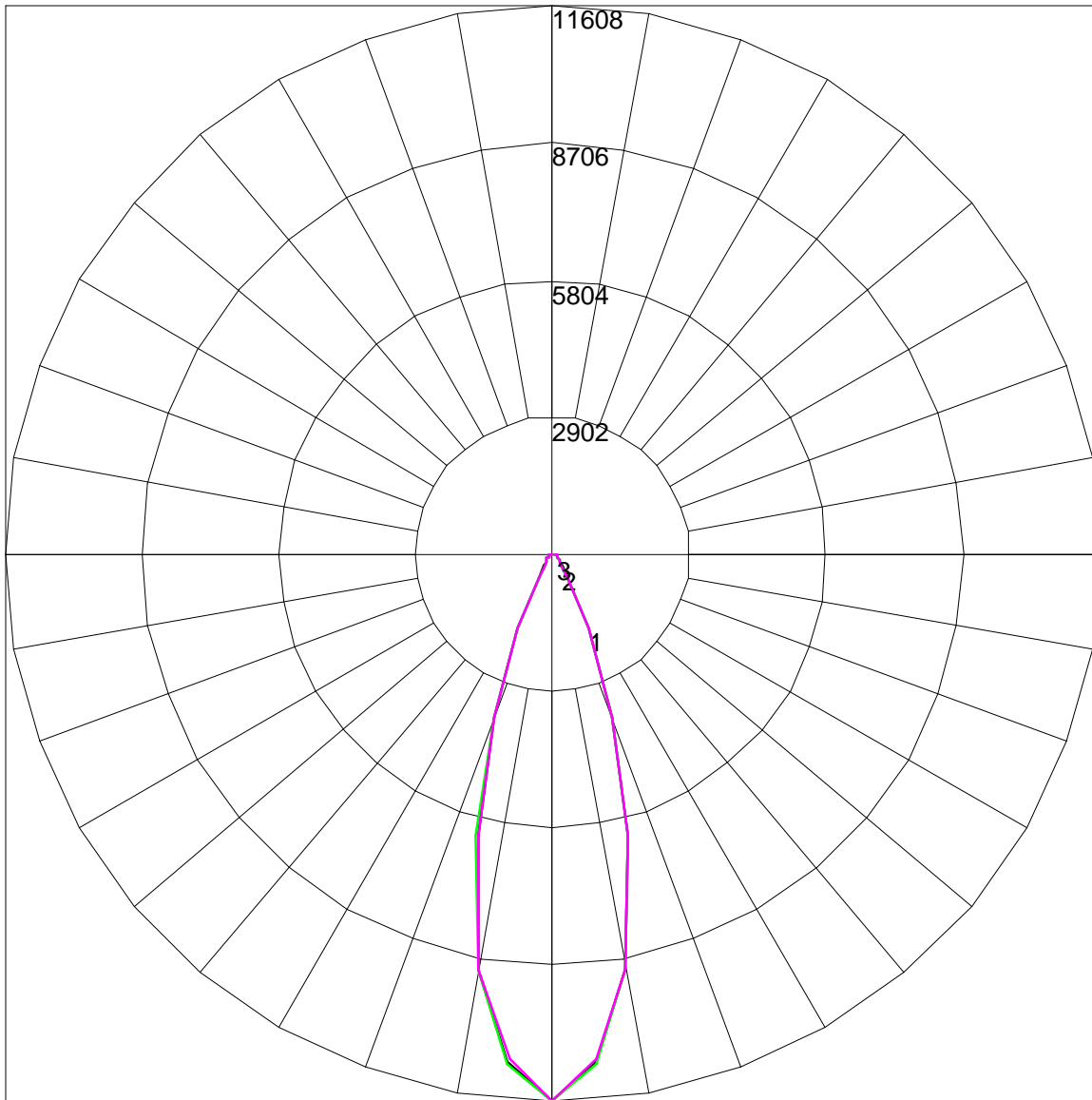
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	104	98	93	90	102	96	92	89	94	90	87	92	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	70	66	63	70	66	63	69	65	63	62

POLAR GRAPH



Maximum Candela = 11607.61 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)