

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKMDE1-RD6FMWSO-FACY2.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)

[ISSUE DATE]

[TEST DATE] Fri May 13 2016

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[TEST] SP-00476\_23

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 6" 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	3536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.68
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	15128	15218	15066
55	11406	11372	11286
65	9035	8392	8993
75	6814	6734	6991
85	5399	5519	5587

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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>	5353.41	5353.41	5353.41	5353.41	5353.41
<b>5</b>	5248.40	5172.91	5101.62	5251.04	5193.66
<b>10</b>	4866.89	4831.60	4824.80	4845.56	4807.84
<b>15</b>	4088.94	4081.19	4116.34	4088.45	4071.31
<b>20</b>	3065.33	3083.14	3053.99	3072.34	3077.28
<b>25</b>	1893.12	1905.63	1894.80	1893.13	1858.57
<b>30</b>	928.31	924.97	926.02	934.99	938.37
<b>35</b>	590.57	584.79	569.28	583.86	585.74
<b>40</b>	371.96	381.52	380.34	388.39	378.72
<b>45</b>	278.21	274.48	279.86	277.30	277.07
<b>50</b>	239.30	230.81	227.44	229.33	225.79
<b>55</b>	191.86	190.03	191.28	191.18	189.84
<b>60</b>	158.04	158.79	156.62	156.66	145.54
<b>65</b>	133.17	129.17	123.69	126.46	132.56
<b>70</b>	104.68	104.48	103.26	103.26	101.63
<b>75</b>	83.20	80.15	82.23	79.00	85.37
<b>80</b>	64.43	65.49	65.01	66.28	67.36
<b>85</b>	50.27	55.05	51.39	53.35	52.02
<b>90</b>	44.25	46.40	47.40	44.48	47.97

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Zone	Lumens	%Lamp	%Fixt
0-20	1604.24	N.A.	45.40
0-30	2481.86	N.A.	70.20
0-40	2865.08	N.A.	81.00
0-60	3261.23	N.A.	92.20
0-80	3476.62	N.A.	98.30
0-90	3535.85	N.A.	100.00
10-90	3051.35	N.A.	86.30
20-40	1260.84	N.A.	35.70
20-50	1485.33	N.A.	42.00
40-70	523.84	N.A.	14.80
60-80	215.38	N.A.	6.10
70-80	87.70	N.A.	2.50
80-90	59.23	N.A.	1.70
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	3535.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	484.50
10-20	1119.73
20-30	877.63
30-40	383.21
40-50	224.48
50-60	171.67
60-70	127.68
70-80	87.70
80-90	59.23
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

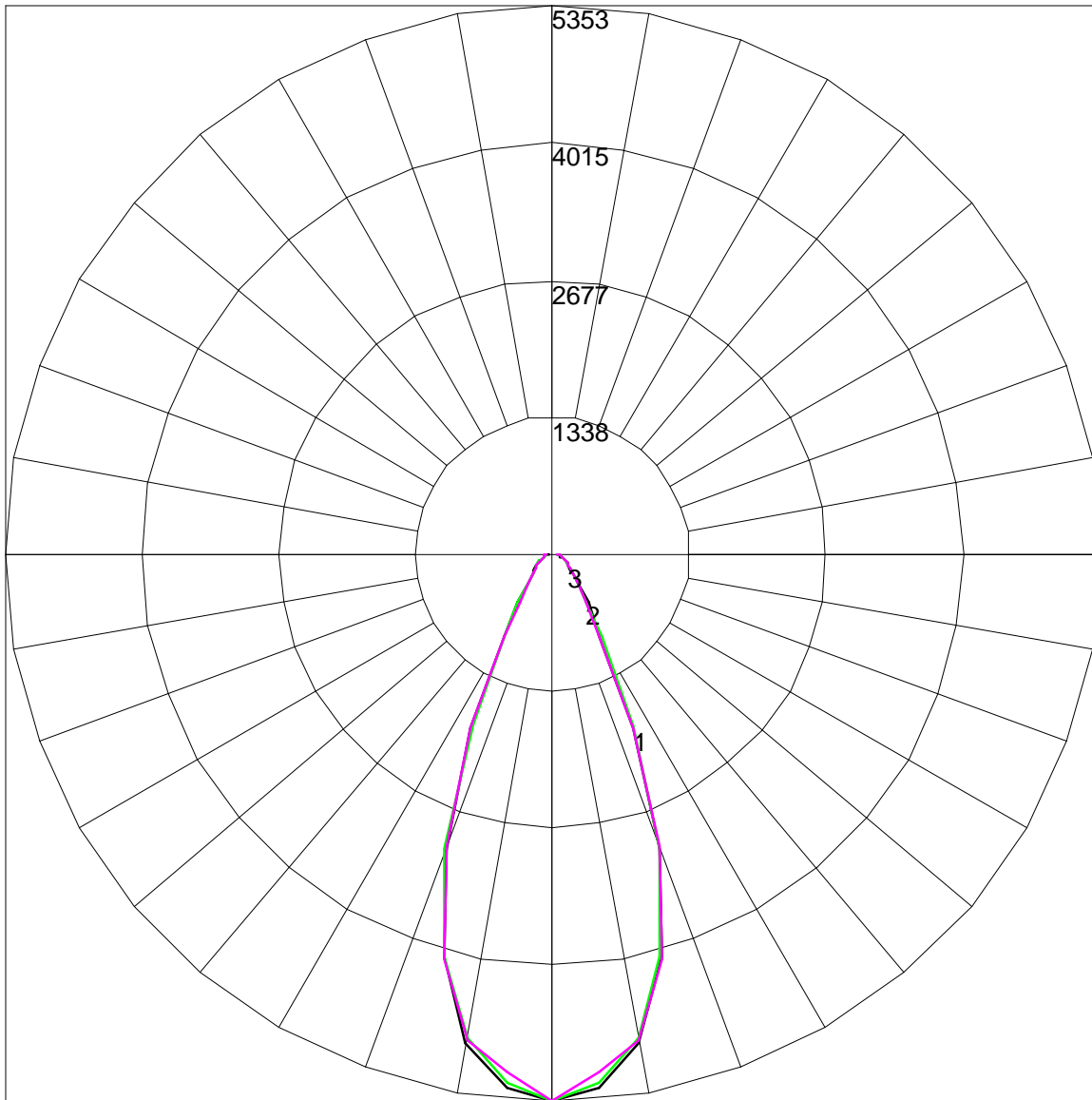
Effective Floor Cavity Reflectance 0.20

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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	62	58	66	61	58	65	60	57	56
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50

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PHOTOMETRIC FILENAME : RDF06LEDXT-50LXXKMDE1-RD6FMWSO-FACY2.IES

## POLAR GRAPH



Maximum Candela = 5353.41 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)