

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKXWE1-RD6FMWSO-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)

[ISSUE DATE]

[TEST DATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00476\_27

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-50L-xxK-XW-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" aperture recessed LED downlight w/ 4"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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.33 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15524	15128	15184
55	11054	10802	10770
65	7842	8103	7927
75	6268	6157	6265
85	5494	5600	5458

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKXWE1-RD6FMWSO-FACY4.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	4484.29	4484.29	4484.29	4484.29	4484.29
<b>5</b>	4325.63	4490.42	4483.19	4567.46	4473.96
<b>10</b>	4510.45	4425.42	4429.13	4436.90	4431.38
<b>15</b>	4103.00	4108.19	4045.23	4069.57	4118.30
<b>20</b>	2701.32	2713.57	2690.84	2693.22	2733.17
<b>25</b>	1630.53	1625.68	1642.28	1635.37	1633.39
<b>30</b>	891.27	878.44	883.95	881.21	873.87
<b>35</b>	612.80	606.00	596.07	595.68	601.41
<b>40</b>	435.07	450.17	446.71	442.40	456.31
<b>45</b>	370.56	360.99	361.11	356.60	362.44
<b>50</b>	315.58	312.32	307.96	312.05	315.65
<b>55</b>	256.09	251.49	250.26	253.84	249.51
<b>60</b>	208.35	203.71	207.99	206.11	208.19
<b>65</b>	170.67	176.48	176.35	177.04	172.51
<b>70</b>	147.35	143.47	146.77	147.81	148.90
<b>75</b>	123.45	127.24	121.26	124.88	123.39
<b>80</b>	112.24	107.00	104.73	106.87	108.13
<b>85</b>	93.57	89.91	95.37	90.71	92.96
<b>90</b>	79.15	77.63	75.50	85.12	86.12

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKXWE1-RD6FMWSO-FACY4.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1491.52	N.A.	41.70
0-30	2264.77	N.A.	63.30
0-40	2657.88	N.A.	74.20
0-60	3172.11	N.A.	88.60
0-80	3479.14	N.A.	97.20
0-90	3580.59	N.A.	100.00
10-90	3154.06	N.A.	88.10
20-40	1166.36	N.A.	32.60
20-50	1451.93	N.A.	40.50
40-70	688.58	N.A.	19.20
60-80	307.03	N.A.	8.60
70-80	132.68	N.A.	3.70
80-90	101.45	N.A.	2.80
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	3580.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	426.53
10-20	1064.99
20-30	773.25
30-40	393.11
40-50	285.57
50-60	228.66
60-70	174.35
70-80	132.68
80-90	101.45
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : RDF06LEDXT-50LXXKXWE1-RD6FMWSO-FACY4.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

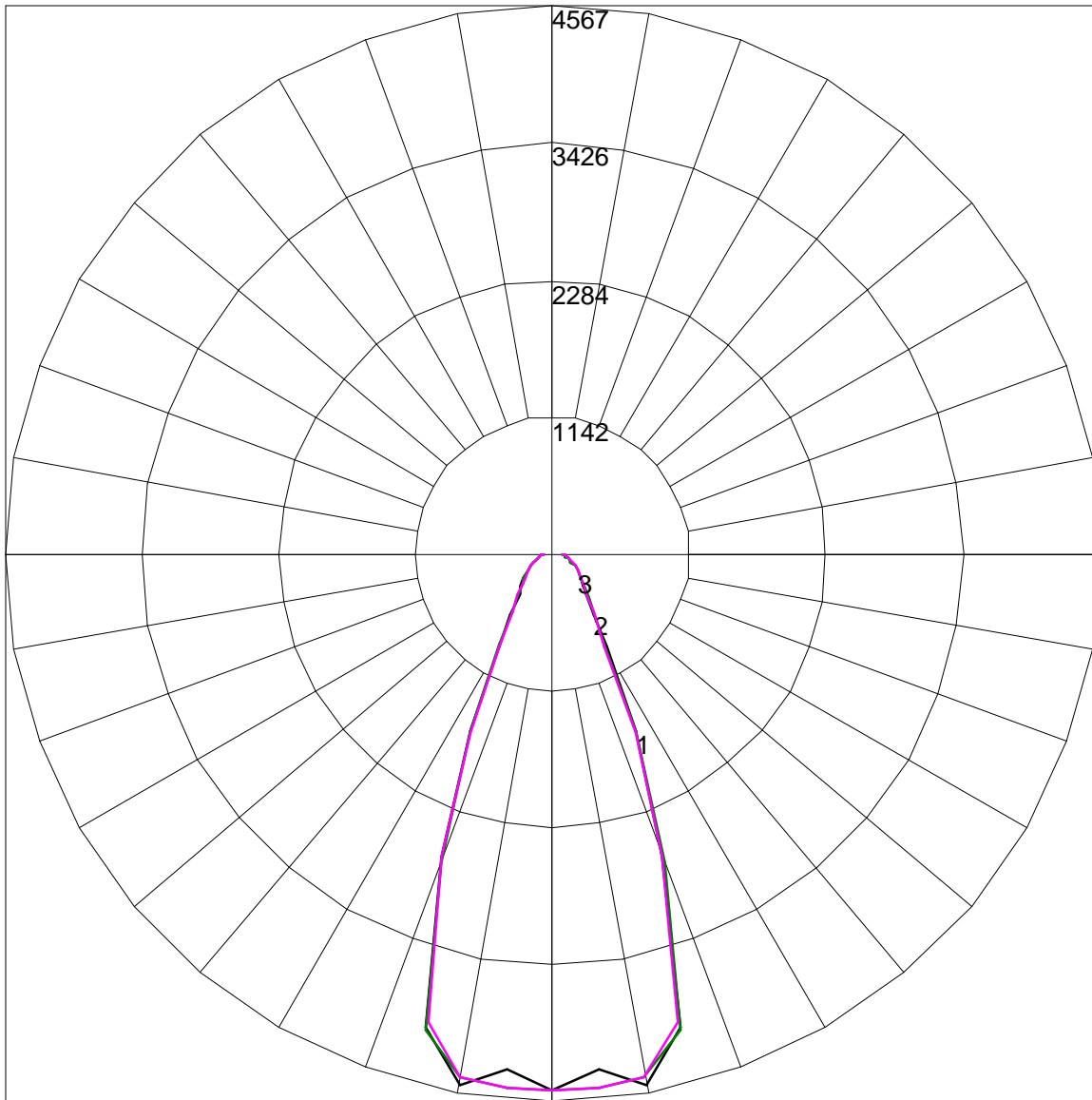
Effective Floor Cavity Reflectance 0.20

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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKXWE1-RD6FMWSO-FACY4.IES

## POLAR GRAPH



Maximum Candela = 4567.46 Located At Horizontal Angle = 67.5, 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)