

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKXWE1-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 Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00476\_29\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-20L-xxK-XW-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"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, scaled from 50L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.76
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	6389	6418	6597
55	4684	4693	4664
65	3625	3620	3627
75	2747	2693	2680
85	2384	2352	2398

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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>	1792.804	1792.804	1792.804	1792.804	1792.804
<b>5</b>	1795.892	1787.540	1794.324	1800.136	1814.248
<b>10</b>	1789.260	1782.868	1778.052	1774.200	1797.604
<b>15</b>	1673.028	1650.480	1668.324	1657.340	1664.376
<b>20</b>	1392.864	1382.620	1381.932	1385.320	1380.492
<b>25</b>	878.460	877.052	883.868	882.544	877.228
<b>30</b>	479.908	477.836	468.436	472.800	464.768
<b>35</b>	291.592	292.776	293.788	290.396	289.392
<b>40</b>	154.456	161.528	152.484	152.096	156.228
<b>45</b>	117.488	121.996	118.032	118.700	121.324
<b>50</b>	97.852	98.224	98.216	96.060	96.332
<b>55</b>	78.784	79.528	78.932	79.944	78.456
<b>60</b>	66.192	64.548	65.052	64.672	64.648
<b>65</b>	53.424	54.888	53.352	53.892	53.464
<b>70</b>	41.480	42.728	42.876	42.900	40.348
<b>75</b>	33.540	33.720	32.888	33.760	32.720
<b>80</b>	27.776	27.652	27.888	27.176	28.388
<b>85</b>	22.200	22.556	21.900	22.956	22.332
<b>90</b>	19.048	19.420	18.612	18.008	19.728

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Zone	Lumens	%Lamp	%Fixt
0-20	626.18	N.A.	41.70
0-30	1034.92	N.A.	68.90
0-40	1222.15	N.A.	81.30
0-60	1388.62	N.A.	92.40
0-80	1478.01	N.A.	98.30
0-90	1502.93	N.A.	100.00
10-90	1331.99	N.A.	88.60
20-40	595.97	N.A.	39.70
20-50	690.71	N.A.	46.00
40-70	219.73	N.A.	14.60
60-80	89.39	N.A.	5.90
70-80	36.14	N.A.	2.40
80-90	24.92	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	1502.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.94
10-20	455.24
20-30	408.75
30-40	187.23
40-50	94.73
50-60	71.74
60-70	53.26
70-80	36.14
80-90	24.92
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

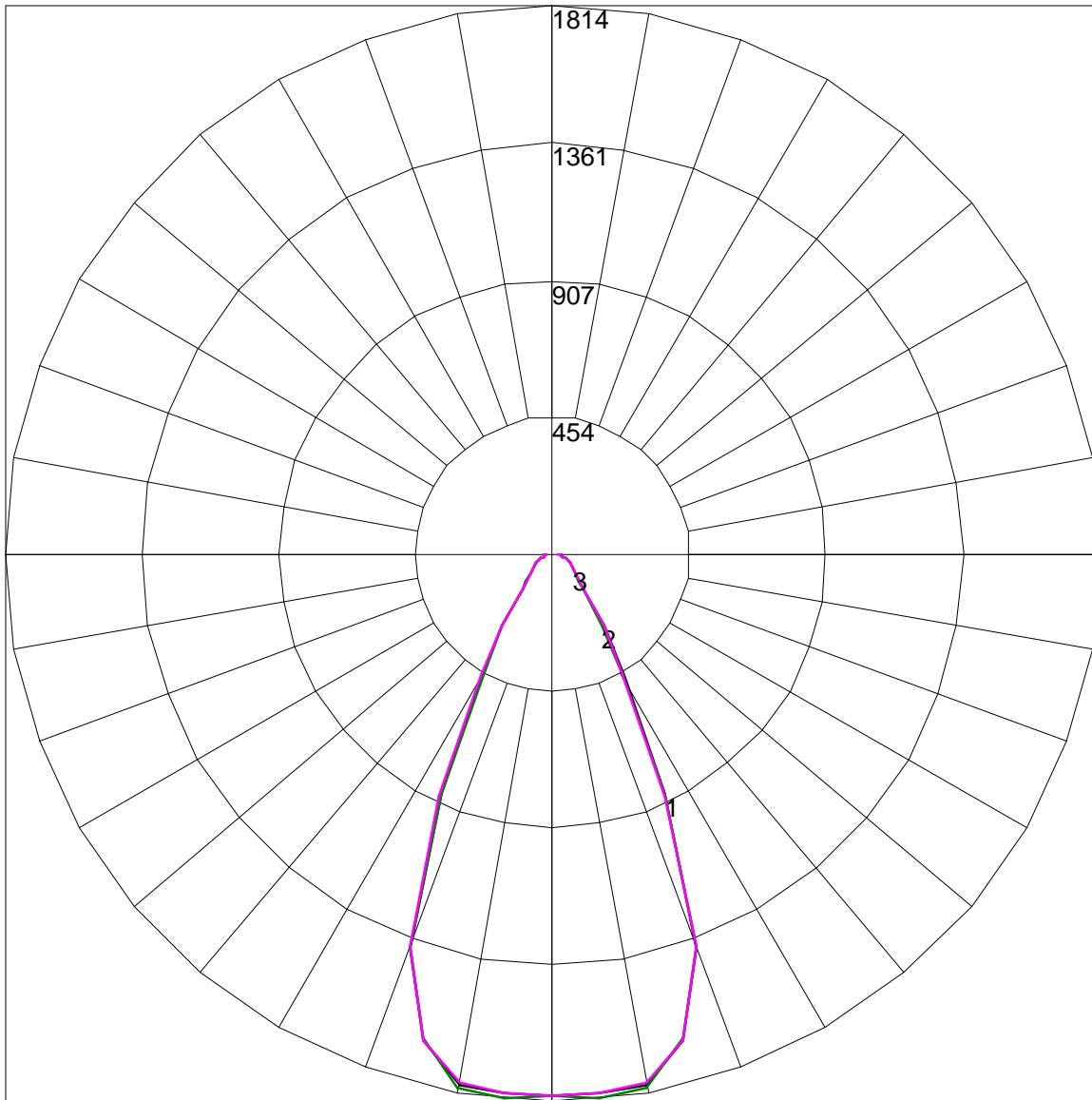
Effective Floor Cavity Reflectance 0.20

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	101	102	100	98	99	97	95	95	94	92	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	90	81	74	70	88	80	74	69	78	73	69	76	71	68	74	70	67	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	65	60	80	70	64	60	69	64	60	68	63	60	67	62	59	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	54	50	58	53	50	49

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PHOTOMETRIC FILENAME : RDF06LEDXT-20LXXKXWE1-RD6FMWSO-FACY2.IES

## POLAR GRAPH



Maximum Candela = 1814.248 Located At Horizontal Angle = 90, 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)