

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-10LXXKWDE1-RD6FMWSO-FACY4.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] Wed Sep 28 2016

[TEST] SP-00476\_26\_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-10L-xxK-WD-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] 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	672
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.66
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	2929	2915	2941
55	2182	2147	2075
65	1605	1577	1637
75	1289	1316	1264
85	1118	1110	1094

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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>	845.616	845.616	845.616	845.616	845.616
<b>5</b>	863.048	859.549	847.048	874.661	854.486
<b>10</b>	873.738	867.504	871.708	864.374	880.128
<b>15</b>	784.394	796.810	790.493	791.738	787.687
<b>20</b>	465.703	469.976	470.181	468.000	473.871
<b>25</b>	262.326	262.650	261.862	264.090	264.055
<b>30</b>	161.097	157.727	160.744	162.128	161.292
<b>35</b>	114.011	112.513	111.558	113.200	111.083
<b>40</b>	87.209	84.650	85.244	85.345	86.497
<b>45</b>	69.922	70.422	69.580	71.586	70.208
<b>50</b>	59.948	60.160	60.484	61.094	61.054
<b>55</b>	50.552	49.605	49.734	50.280	48.074
<b>60</b>	41.130	41.470	42.059	40.760	41.541
<b>65</b>	34.937	34.462	34.323	35.167	35.628
<b>70</b>	30.193	29.745	29.660	30.637	29.678
<b>75</b>	25.383	25.848	25.926	25.621	24.897
<b>80</b>	21.535	22.118	21.996	21.938	21.431
<b>85</b>	19.047	18.592	18.908	18.495	18.636
<b>90</b>	15.197	16.855	16.951	16.957	17.849

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Zone	Lumens	%Lamp	%Fixt
0-20	284.74	N.A.	42.40
0-30	415.14	N.A.	61.80
0-40	488.36	N.A.	72.70
0-60	588.74	N.A.	87.70
0-80	650.93	N.A.	96.90
0-90	671.69	N.A.	100.00
10-90	589.41	N.A.	87.70
20-40	203.62	N.A.	30.30
20-50	258.96	N.A.	38.60
40-70	135.32	N.A.	20.10
60-80	62.19	N.A.	9.30
70-80	27.25	N.A.	4.10
80-90	20.76	N.A.	3.10
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	671.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	82.28
10-20	202.46
20-30	130.40
30-40	73.22
40-50	55.34
50-60	45.05
60-70	34.94
70-80	27.25
80-90	20.76
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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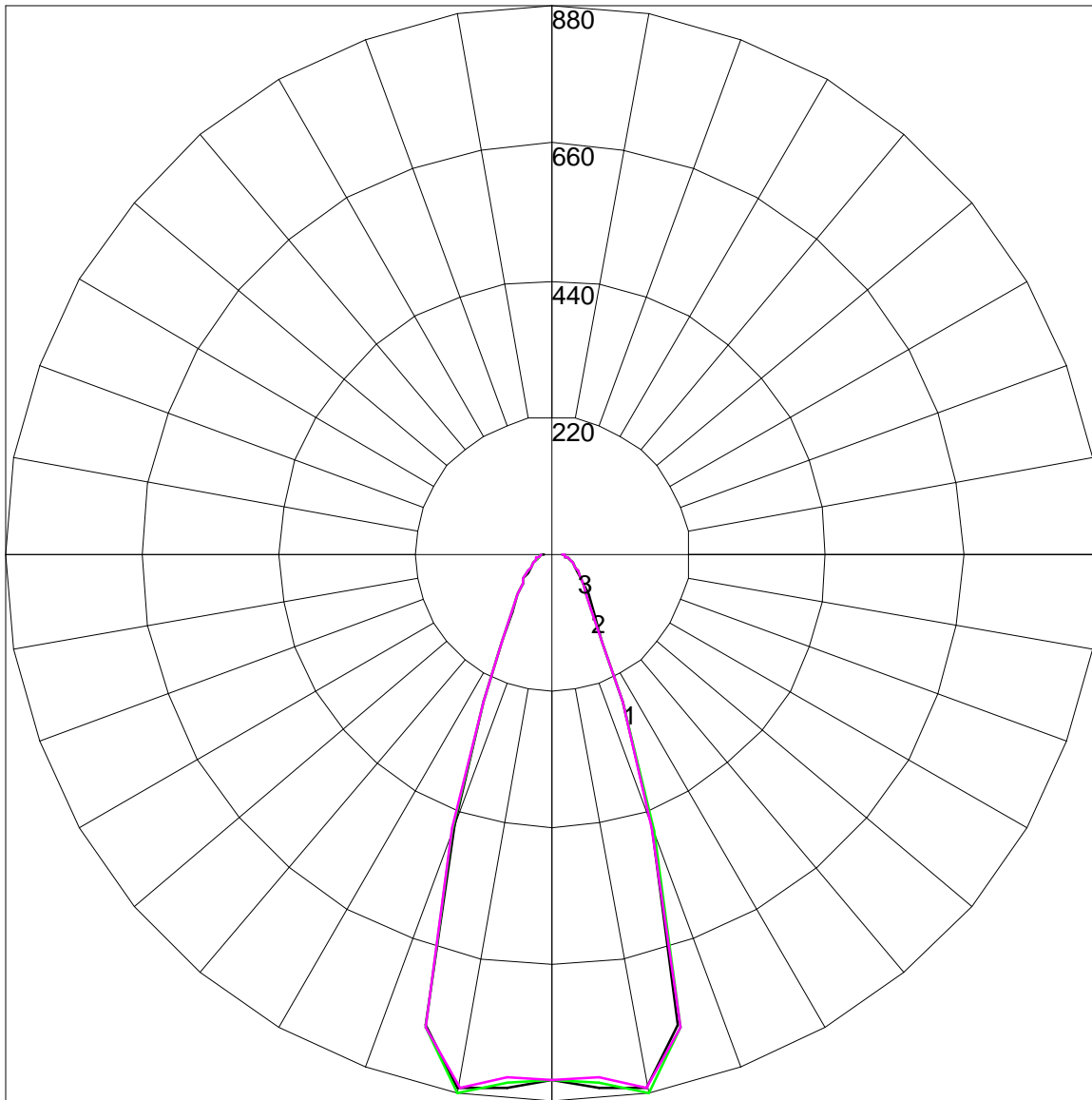
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	98	90	83	79	95	88	82	78	85	81	77	83	79	75	81	77	74	72
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	79	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 880.128 Located At Horizontal Angle = 90, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)