

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKMDE1-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 May 13 2016

[UPDATE] Wed Oct 5 2016

[TEST] SP-00476\_25\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-20L-xxK-MD-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" aperture recessed LED downlight w/ 4"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, scaled from 50L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1357
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.62
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	5443	5426	5407
55	3975	3926	3859
65	2978	3004	2848
75	2415	2403	2267
85	1864	1964	1970

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKMDE1-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>	2149.744	2149.744	2149.744	2149.744	2149.744
<b>5</b>	2064.260	2074.456	2085.456	2086.464	2132.152
<b>10</b>	1941.128	1925.584	1948.016	1931.260	1935.316
<b>15</b>	1554.316	1541.300	1552.356	1550.480	1523.376
<b>20</b>	963.664	970.624	964.784	968.212	966.172
<b>25</b>	536.824	536.160	542.764	545.636	543.616
<b>30</b>	350.596	357.216	355.872	357.452	347.648
<b>35</b>	210.032	209.112	207.280	206.804	206.512
<b>40</b>	155.836	158.076	154.440	155.076	159.132
<b>45</b>	129.924	131.796	129.528	128.948	129.052
<b>50</b>	108.380	109.844	109.044	110.804	109.236
<b>55</b>	92.092	92.024	90.956	90.128	89.400
<b>60</b>	75.412	75.828	74.188	75.768	77.384
<b>65</b>	64.816	64.888	65.372	64.252	61.972
<b>70</b>	54.860	54.216	53.224	54.912	55.912
<b>75</b>	47.564	46.068	47.320	45.584	44.656
<b>80</b>	38.280	39.020	39.144	39.568	38.000
<b>85</b>	31.748	33.108	33.444	33.904	33.552
<b>90</b>	29.636	29.492	29.048	29.188	28.472

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Zone	Lumens	%Lamp	%Fixt
0-20	608.13	N.A.	44.80
0-30	879.73	N.A.	64.80
0-40	1023.36	N.A.	75.40
0-60	1206.86	N.A.	88.90
0-80	1320.14	N.A.	97.30
0-90	1356.88	N.A.	100.00
10-90	1162.36	N.A.	85.70
20-40	415.23	N.A.	30.60
20-50	516.63	N.A.	38.10
40-70	247.65	N.A.	18.30
60-80	113.28	N.A.	8.30
70-80	49.13	N.A.	3.60
80-90	36.74	N.A.	2.70
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	1356.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	194.52
10-20	413.62
20-30	271.60
30-40	143.63
40-50	101.40
50-60	82.10
60-70	64.15
70-80	49.13
80-90	36.74
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

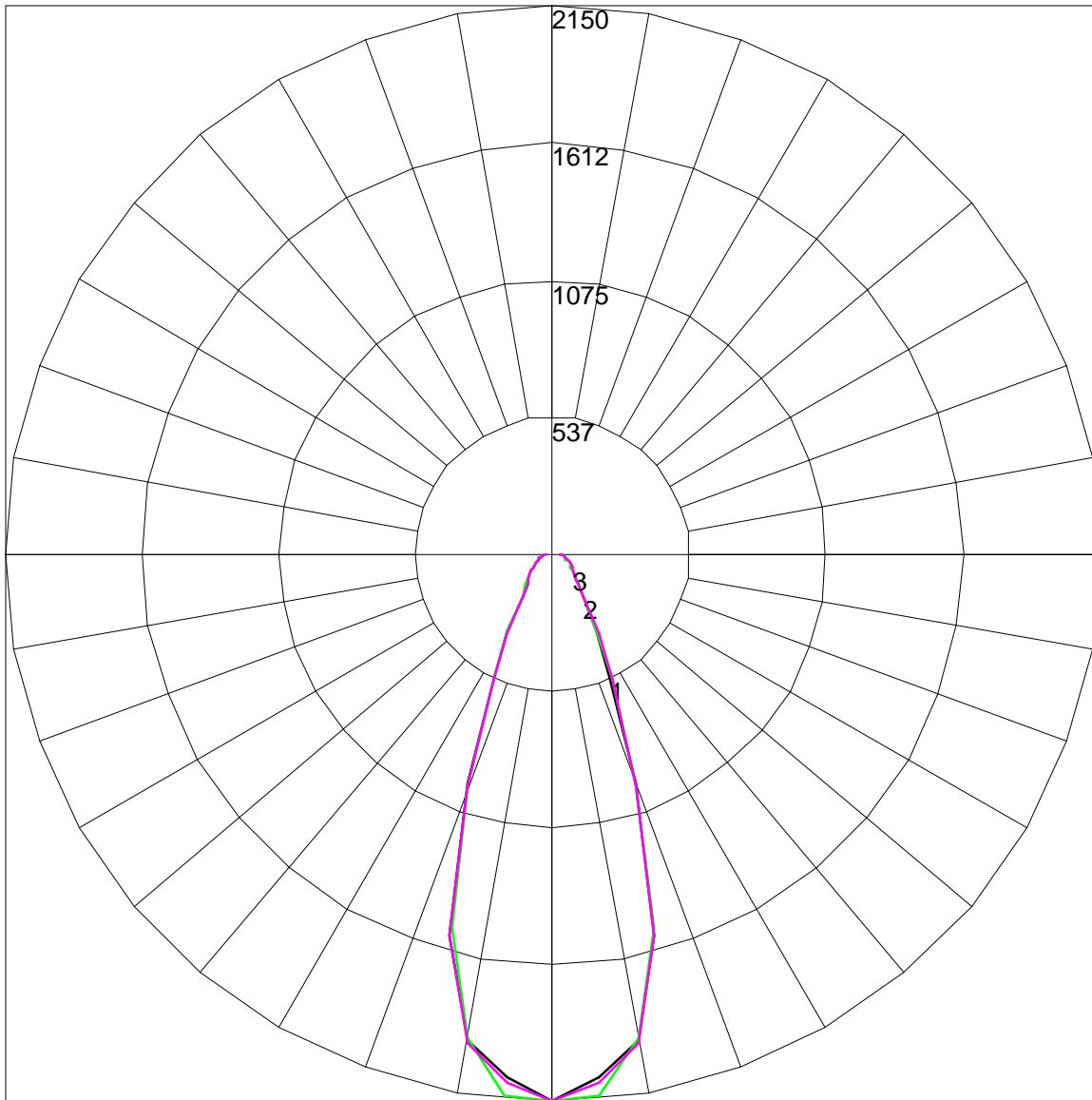
Effective Floor Cavity Reflectance 0.20

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	111	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48

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PHOTOMETRIC FILENAME : RDF06LEDXT-20LXXKMDE1-RD6FMWSO-FACY4.IES

## POLAR GRAPH



Maximum Candela = 2149.744 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)