

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-13LXXKWDE1-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] Wed Sep 28 2016

[TEST] SP-00476\_28\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-13L-xxK-WD-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"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	953
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.74
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	4444	4420	4516
55	3147	3169	3357
65	2489	2503	2421
75	2021	1947	1939
85	1649	1708	1759

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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>	1137.692	1137.692	1137.692	1137.692	1137.692
<b>5</b>	1140.558	1130.974	1144.702	1155.047	1124.607
<b>10</b>	1186.822	1168.487	1168.027	1183.203	1177.428
<b>15</b>	1116.185	1113.364	1106.394	1120.795	1121.312
<b>20</b>	905.694	895.640	905.390	909.015	921.053
<b>25</b>	519.711	501.948	509.072	508.721	511.376
<b>30</b>	258.398	256.511	253.172	251.906	253.175
<b>35</b>	152.906	153.546	156.278	156.029	157.820
<b>40</b>	102.037	102.586	104.122	102.367	102.216
<b>45</b>	81.731	78.437	81.276	79.581	83.054
<b>50</b>	65.559	65.112	64.706	64.610	65.918
<b>55</b>	52.936	53.446	53.305	53.654	56.472
<b>60</b>	45.263	44.065	45.217	44.439	45.570
<b>65</b>	36.691	37.279	36.899	36.910	35.685
<b>70</b>	30.007	28.922	29.778	30.371	30.040
<b>75</b>	24.677	22.989	23.774	24.232	23.678
<b>80</b>	19.729	19.263	18.931	19.664	19.297
<b>85</b>	15.350	16.063	15.902	15.863	16.377
<b>90</b>	13.127	13.021	13.681	13.499	13.270

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Zone	Lumens	%Lamp	%Fixt
0-20	412.49	N.A.	43.30
0-30	657.44	N.A.	69.00
0-40	760.83	N.A.	79.90
0-60	872.76	N.A.	91.60
0-80	935.01	N.A.	98.20
0-90	952.61	N.A.	100.00
10-90	842.51	N.A.	88.40
20-40	348.34	N.A.	36.60
20-50	411.66	N.A.	43.20
40-70	148.64	N.A.	15.60
60-80	62.24	N.A.	6.50
70-80	25.54	N.A.	2.70
80-90	17.60	N.A.	1.80
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	952.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

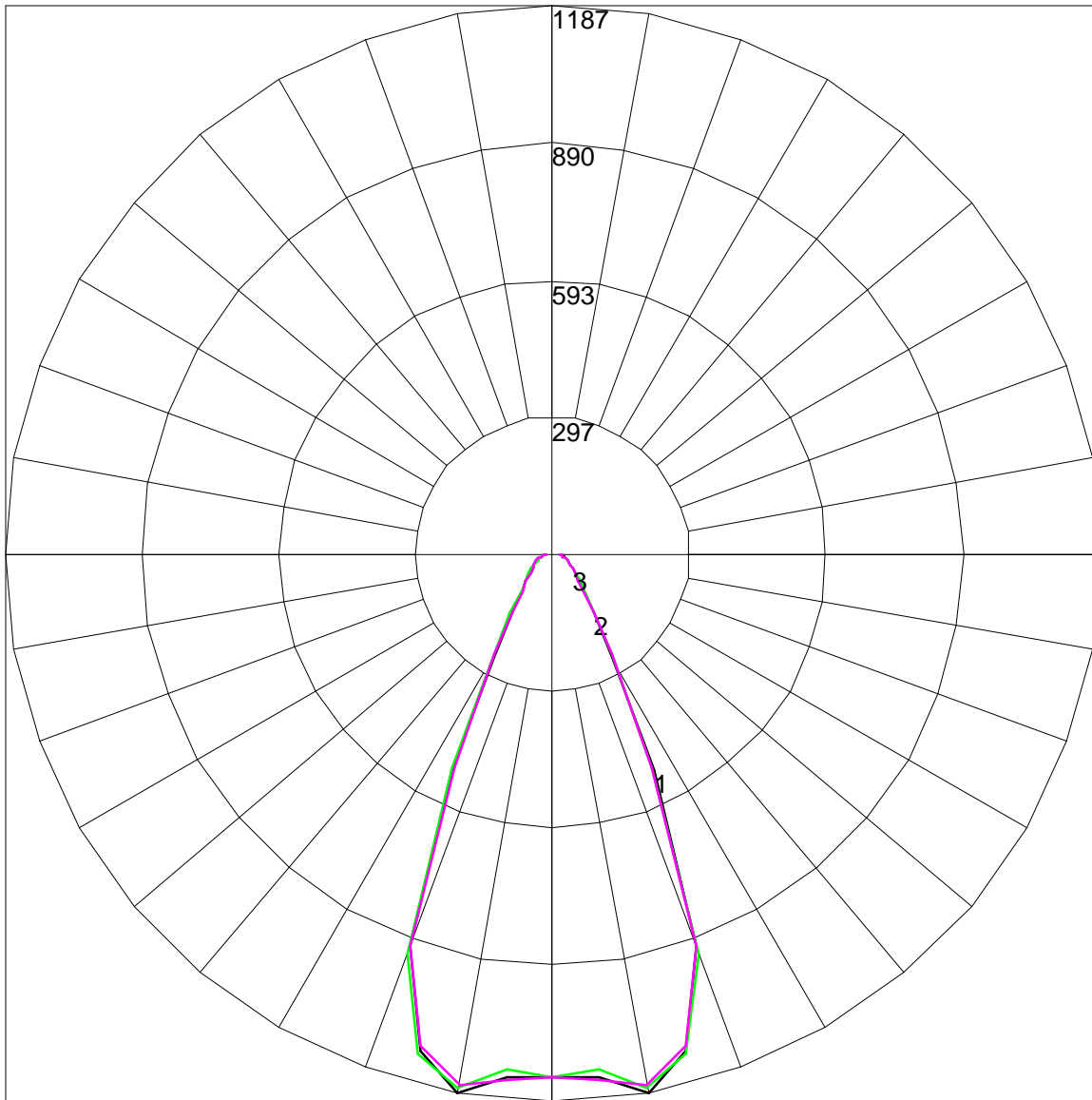
Zone	Lumens
0-10	110.10
10-20	302.39
20-30	244.95
30-40	103.39
40-50	63.32
50-60	48.62
60-70	36.70
70-80	25.54
80-90	17.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-13LXXKWDE1-RD6FMWSO-FACY2.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	86	80	75	92	85	79	75	82	78	74	80	76	73	78	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	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	59	67	62	59	58
8	77	67	61	57	76	67	61	56	65	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	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 1186.822 Located At Horizontal Angle = 0, 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)