

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-13LXXKNDE1-RD6FMWSO-FACY2.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)

[ISSUEDATE]

[TESTDATE] Fri May 13 2016

[UPDATE] Mon Jan 9 2017

[TEST] SP-00476\_22\_13L

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Narrow 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	1101
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.54
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	2547	2526	2654
55	1972	1926	1956
65	1591	1537	1511
75	1228	1259	1243
85	1153	1029	1063

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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>	3017.978	3017.978	3017.978	3017.978	3017.978
<b>5</b>	2815.984	2821.491	2791.206	2836.433	2825.123
<b>10</b>	2328.810	2304.216	2329.652	2305.703	2335.671
<b>15</b>	1612.348	1601.015	1602.955	1603.506	1617.101
<b>20</b>	956.530	956.444	965.289	961.311	955.687
<b>25</b>	460.039	457.553	458.229	460.184	452.920
<b>30</b>	155.657	157.365	156.910	159.068	158.059
<b>35</b>	84.851	89.526	89.068	86.211	90.181
<b>40</b>	61.664	59.296	61.079	58.435	58.375
<b>45</b>	46.847	46.407	46.449	47.372	48.807
<b>50</b>	38.696	38.652	39.031	39.413	38.527
<b>55</b>	33.168	30.813	32.404	31.431	32.898
<b>60</b>	26.200	26.871	26.465	27.482	26.954
<b>65</b>	23.447	21.650	22.651	22.199	22.272
<b>70</b>	17.664	18.611	18.262	18.803	17.997
<b>75</b>	14.994	14.583	15.379	15.072	15.176
<b>80</b>	12.636	11.625	11.963	12.688	12.667
<b>85</b>	10.738	9.539	9.581	10.059	9.898
<b>90</b>	9.175	8.336	8.832	8.468	7.636

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Zone	Lumens	%Lamp	%Fixt
0-20	697.63	N.A.	63.40
0-30	924.25	N.A.	84.00
0-40	985.08	N.A.	89.50
0-60	1051.2	N.A.	95.50
0-80	1089.49	N.A.	99.00
0-90	1100.53	N.A.	100.00
10-90	847.06	N.A.	77.00
20-40	287.45	N.A.	26.10
20-50	324.58	N.A.	29.50
40-70	88.38	N.A.	8.00
60-80	38.29	N.A.	3.50
70-80	16.03	N.A.	1.50
80-90	11.04	N.A.	1.00
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	1100.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	253.47
10-20	444.16
20-30	226.62
30-40	60.83
40-50	37.13
50-60	28.99
60-70	22.27
70-80	16.03
80-90	11.04
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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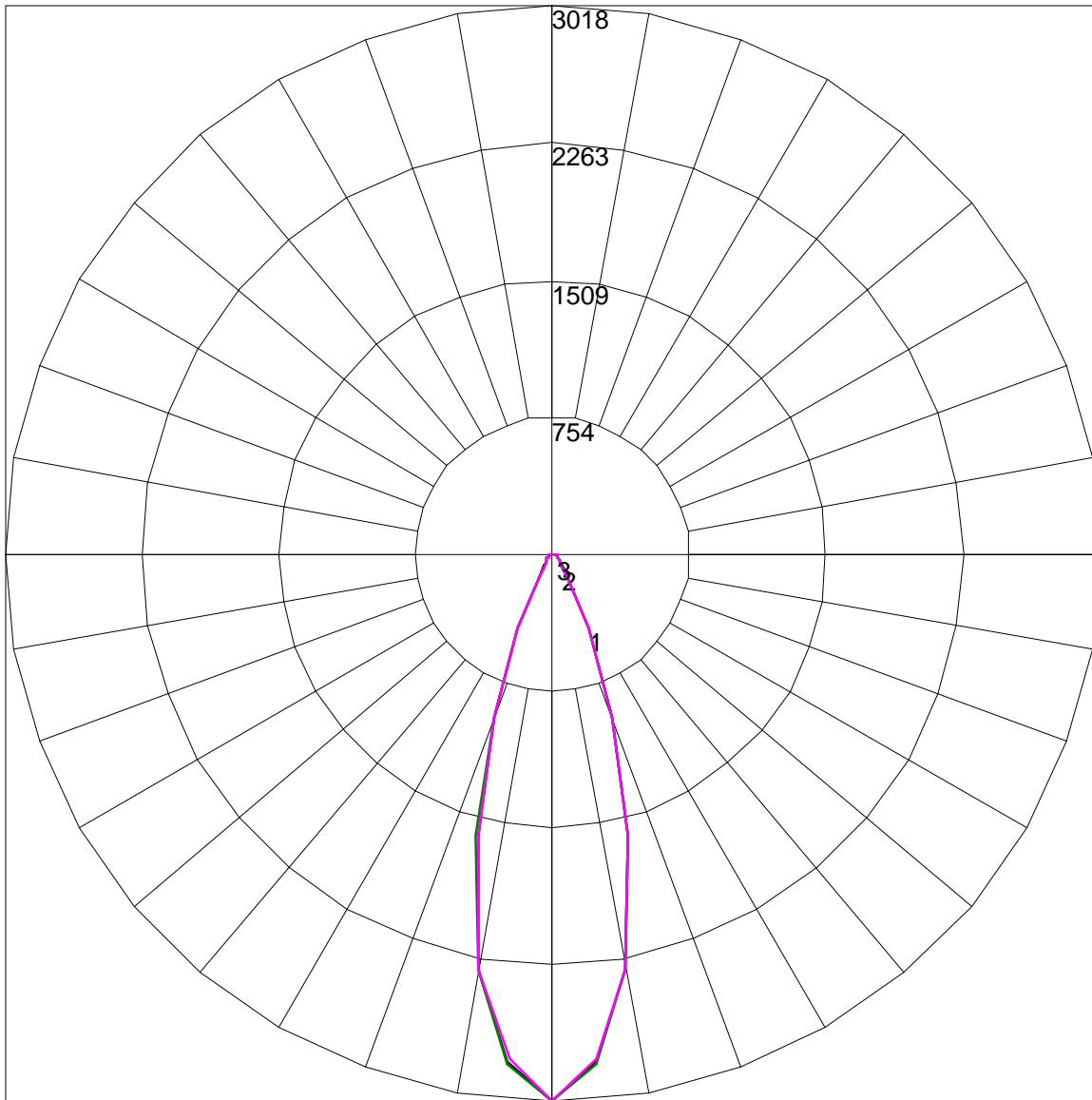
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	69	84	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

POLAR GRAPH



Maximum Candela = 3017.978 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)