

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-13LXXKXWE1-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)

[ISSUE DATE]

[TEST DATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00476\_29\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-13L-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	977
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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)	0.76
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	4153	4172	4288
55	3045	3050	3032
65	2356	2353	2358
75	1785	1751	1742
85	1550	1529	1559

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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>	1165.323	1165.323	1165.323	1165.323	1165.323
<b>5</b>	1167.330	1161.901	1166.311	1170.088	1179.261
<b>10</b>	1163.019	1158.864	1155.734	1153.230	1168.443
<b>15</b>	1087.468	1072.812	1084.411	1077.271	1081.844
<b>20</b>	905.362	898.703	898.256	900.458	897.320
<b>25</b>	570.999	570.084	574.514	573.654	570.198
<b>30</b>	311.940	310.593	304.483	307.320	302.099
<b>35</b>	189.535	190.304	190.962	188.757	188.105
<b>40</b>	100.396	104.993	99.115	98.862	101.548
<b>45</b>	76.367	79.297	76.721	77.155	78.861
<b>50</b>	63.604	63.846	63.840	62.439	62.616
<b>55</b>	51.210	51.693	51.306	51.964	50.996
<b>60</b>	43.025	41.956	42.284	42.037	42.021
<b>65</b>	34.726	35.677	34.679	35.030	34.752
<b>70</b>	26.962	27.773	27.869	27.885	26.226
<b>75</b>	21.801	21.918	21.377	21.944	21.268
<b>80</b>	18.054	17.974	18.127	17.664	18.452
<b>85</b>	14.430	14.661	14.235	14.921	14.516
<b>90</b>	12.381	12.623	12.098	11.705	12.823

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Zone	Lumens	%Lamp	%Fixt
0-20	407.02	N.A.	41.70
0-30	672.70	N.A.	68.90
0-40	794.40	N.A.	81.30
0-60	902.60	N.A.	92.40
0-80	960.71	N.A.	98.30
0-90	976.91	N.A.	100.00
10-90	865.79	N.A.	88.60
20-40	387.38	N.A.	39.70
20-50	448.96	N.A.	46.00
40-70	142.82	N.A.	14.60
60-80	58.10	N.A.	5.90
70-80	23.49	N.A.	2.40
80-90	16.20	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	976.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.11
10-20	295.90
20-30	265.69
30-40	121.70
40-50	61.58
50-60	46.63
60-70	34.62
70-80	23.49
80-90	16.20
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

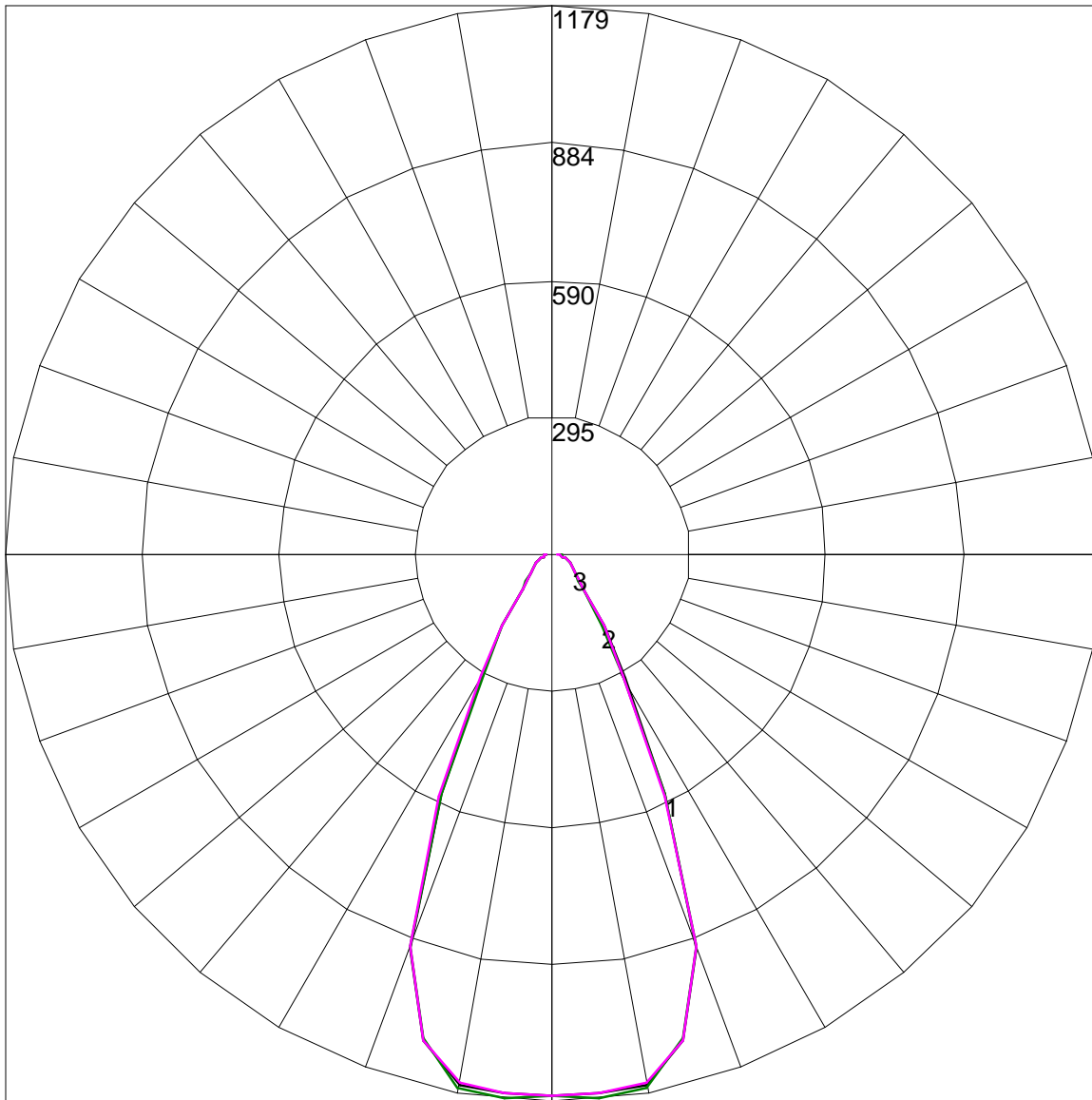
Effective Floor Cavity Reflectance 0.20

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	76	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-13LXXKXWE1-RD6FMWSO-FACY2.IES

## POLAR GRAPH



Maximum Candela = 1179.261 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)