

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-20LXXKNDE1-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)

[ISSUE DATE]

[TEST DATE] Fri May 13 2016

[UPDATE] Mon Jan 9 2017

[TEST] SP-00476\_22\_20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-20L-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	1693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	23.7
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	3919	3886	4083
55	3034	2964	3009
65	2447	2364	2325
75	1889	1938	1912
85	1774	1583	1635

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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>	4643.044	4643.044	4643.044	4643.044	4643.044
<b>5</b>	4332.284	4340.756	4294.164	4363.744	4346.344
<b>10</b>	3582.784	3544.948	3584.080	3547.236	3593.340
<b>15</b>	2480.536	2463.100	2466.084	2466.932	2487.848
<b>20</b>	1471.584	1471.452	1485.060	1478.940	1470.288
<b>25</b>	707.752	703.928	704.968	707.976	696.800
<b>30</b>	239.472	242.100	241.400	244.720	243.168
<b>35</b>	130.540	137.732	137.028	132.632	138.740
<b>40</b>	94.868	91.224	93.968	89.900	89.808
<b>45</b>	72.072	71.396	71.460	72.880	75.088
<b>50</b>	59.532	59.464	60.048	60.636	59.272
<b>55</b>	51.028	47.404	49.852	48.356	50.612
<b>60</b>	40.308	41.340	40.716	42.280	41.468
<b>65</b>	36.072	33.308	34.848	34.152	34.264
<b>70</b>	27.176	28.632	28.096	28.928	27.688
<b>75</b>	23.068	22.436	23.660	23.188	23.348
<b>80</b>	19.440	17.884	18.404	19.520	19.488
<b>85</b>	16.520	14.676	14.740	15.476	15.228
<b>90</b>	14.116	12.824	13.588	13.028	11.748

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Zone	Lumens	%Lamp	%Fixt
0-20	1073.27	N.A.	63.40
0-30	1421.93	N.A.	84.00
0-40	1515.51	N.A.	89.50
0-60	1617.22	N.A.	95.50
0-80	1676.14	N.A.	99.00
0-90	1693.12	N.A.	100.00
10-90	1303.17	N.A.	77.00
20-40	442.23	N.A.	26.10
20-50	499.35	N.A.	29.50
40-70	135.97	N.A.	8.00
60-80	58.91	N.A.	3.50
70-80	24.66	N.A.	1.50
80-90	16.99	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	1693.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	389.95
10-20	683.32
20-30	348.65
30-40	93.58
40-50	57.12
50-60	44.60
60-70	34.26
70-80	24.66
80-90	16.99
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-20LXXKNDE1-RD6FMWSO-FACY2.IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

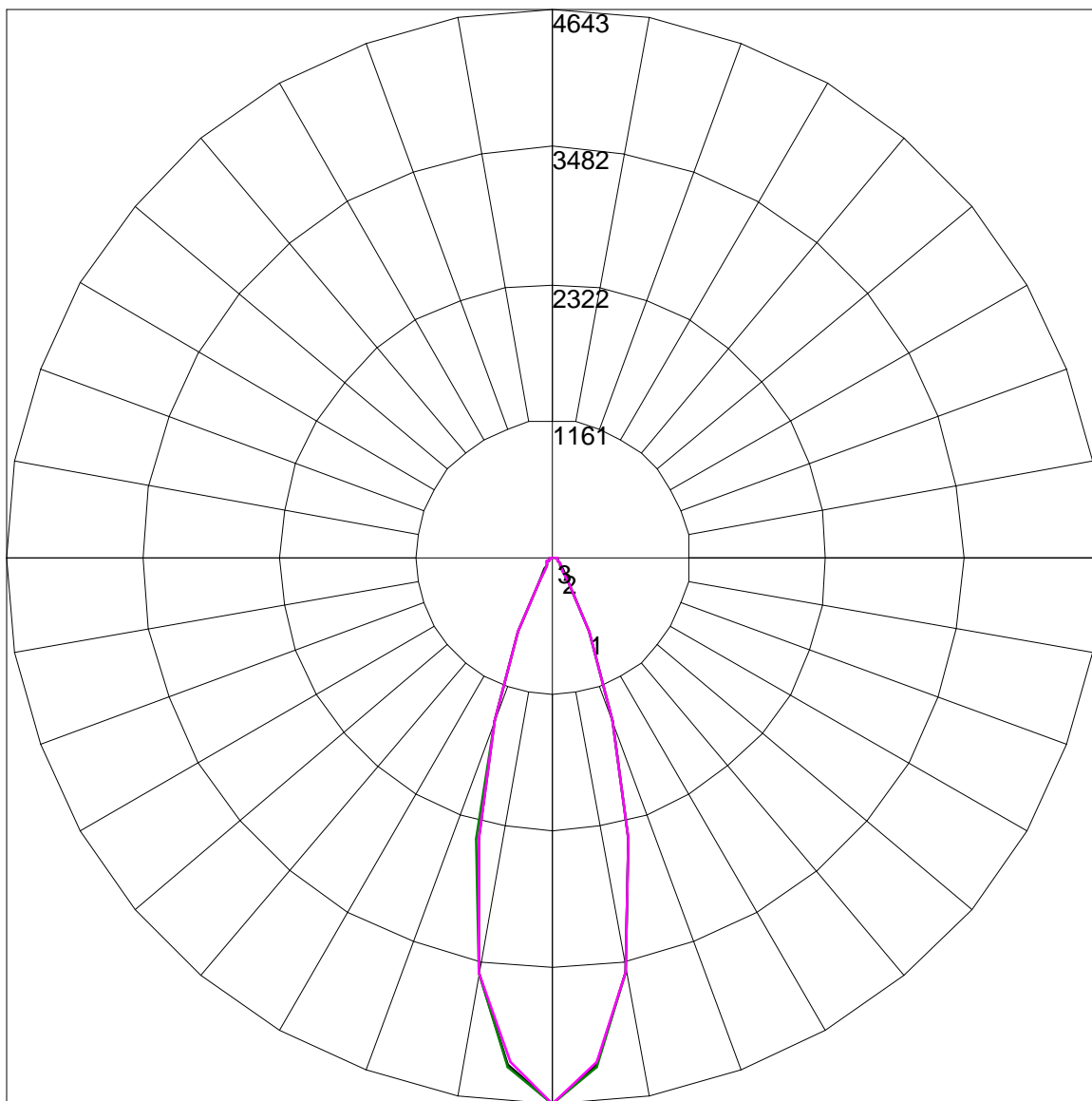
Effective Floor Cavity Reflectance 0.20

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	105	103	101	101	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	93	96	94	92	93	91	90	88
3	104	98	93	90	102	96	92	89	94	90	87	92	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	90	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	79	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	69	76	71	68	75	71	68	74	70	68	67
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	67	63	70	66	63	70	66	63	69	65	63	62

# IES INDOOR REPORT

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## POLAR GRAPH



Maximum Candela = 4643.044 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)