

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-10LXXKNDE1-RD6FMWSO-FACY4.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\_24\_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-10L-xxK-ND-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" aperture recessed LED downlight w/ 4"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	790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.50
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	1796	1904	1880
55	1390	1348	1355
65	1060	1055	1038
75	866	889	874
85	728	732	746

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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>	2254.887	2254.887	2254.887	2254.887	2254.887
<b>5</b>	2079.542	2090.526	2094.351	2097.935	2094.274
<b>10</b>	1730.693	1724.480	1725.681	1731.164	1703.960
<b>15</b>	1178.134	1194.612	1194.168	1190.382	1196.716
<b>20</b>	553.553	559.503	554.724	559.480	563.477
<b>25</b>	194.503	190.860	194.013	193.612	194.058
<b>30</b>	108.881	109.574	109.971	109.252	111.023
<b>35</b>	73.726	77.669	75.641	75.608	77.239
<b>40</b>	56.111	54.770	55.416	54.210	53.972
<b>45</b>	42.871	43.776	45.459	43.000	44.876
<b>50</b>	38.459	37.540	37.650	38.891	37.641
<b>55</b>	32.204	30.975	31.235	32.111	31.386
<b>60</b>	26.238	26.107	27.408	27.292	26.439
<b>65</b>	23.062	21.743	22.952	22.344	22.581
<b>70</b>	19.947	19.308	19.117	19.894	19.920
<b>75</b>	17.065	17.015	17.509	17.356	17.218
<b>80</b>	13.927	14.340	14.981	15.083	14.230
<b>85</b>	12.398	12.476	12.474	12.452	12.697
<b>90</b>	11.835	11.300	11.250	11.557	11.528

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Zone	Lumens	%Lamp	%Fixt
0-20	505.71	N.A.	64.00
0-30	622.84	N.A.	78.80
0-40	672.04	N.A.	85.00
0-60	735.54	N.A.	93.10
0-80	776.31	N.A.	98.20
0-90	790.23	N.A.	100.00
10-90	601.71	N.A.	76.10
20-40	166.33	N.A.	21.00
20-50	201.22	N.A.	25.50
40-70	86.11	N.A.	10.90
60-80	40.77	N.A.	5.20
70-80	18.15	N.A.	2.30
80-90	13.92	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	790.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	188.52
10-20	317.19
20-30	117.12
30-40	49.21
40-50	34.89
50-60	28.60
60-70	22.61
70-80	18.15
80-90	13.92
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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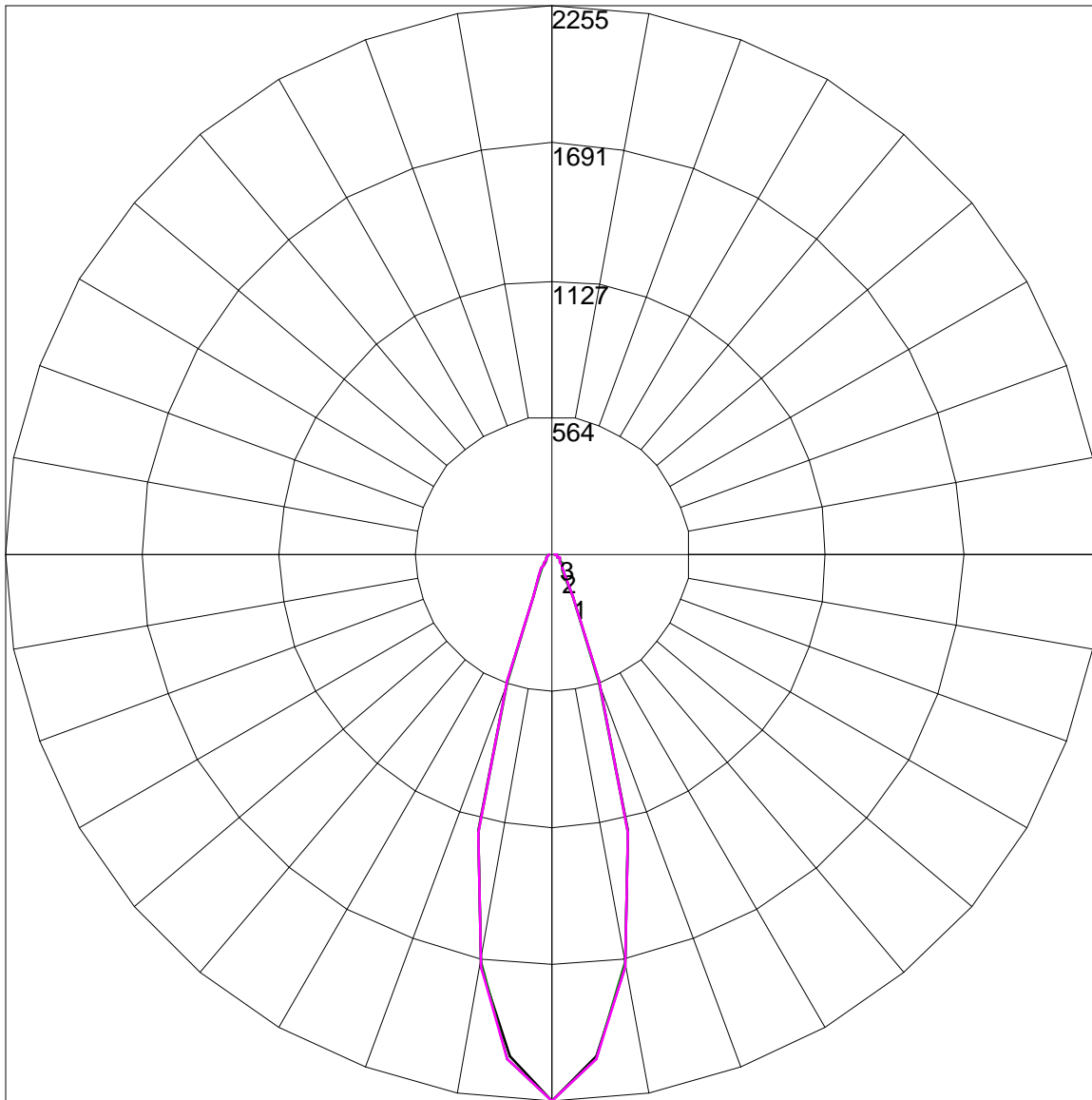
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60

POLAR GRAPH



Maximum Candela = 2254.887 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)