

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKXWE1-RD4FMWSO-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)

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00480\_16\_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-30L-xxK-XW-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"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 40L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	15463	15730	15877
55	12252	12196	12288
65	9405	9526	9580
75	7335	7486	7479
85	5644	5726	5674

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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>	2720.678	2720.678	2720.678	2720.678	2720.678
<b>5</b>	2663.142	2610.047	2610.468	2643.124	2619.624
<b>10</b>	2419.720	2432.849	2411.102	2427.863	2411.266
<b>15</b>	1763.400	1752.756	1749.818	1763.018	1750.862
<b>20</b>	1107.843	1120.856	1113.500	1116.407	1118.573
<b>25</b>	634.440	633.443	626.757	635.344	626.555
<b>30</b>	398.241	394.961	402.059	399.480	406.711
<b>35</b>	301.698	297.351	295.364	295.293	293.657
<b>40</b>	240.679	241.973	241.209	239.144	239.199
<b>45</b>	201.408	205.046	204.891	205.670	206.800
<b>50</b>	181.219	182.419	181.959	180.120	179.224
<b>55</b>	160.500	157.991	159.767	160.094	160.983
<b>60</b>	139.033	139.570	140.256	139.485	138.799
<b>65</b>	120.168	122.358	121.719	121.064	122.412
<b>70</b>	104.475	104.530	103.563	104.787	104.545
<b>75</b>	88.509	90.504	90.325	89.499	90.247
<b>80</b>	76.595	74.445	75.021	74.967	74.359
<b>85</b>	62.024	62.274	62.920	62.001	62.344
<b>90</b>	52.978	55.557	56.126	54.949	54.817

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Zone	Lumens	%Lamp	%Fixt
0-20	728.98	N.A.	40.00
0-30	1042.77	N.A.	57.20
0-40	1234.87	N.A.	67.70
0-60	1538.65	N.A.	84.40
0-80	1754.25	N.A.	96.20
0-90	1823.73	N.A.	100.00
10-90	1579.23	N.A.	86.60
20-40	505.89	N.A.	27.70
20-50	666.40	N.A.	36.50
40-70	424.48	N.A.	23.30
60-80	215.61	N.A.	11.80
70-80	94.90	N.A.	5.20
80-90	69.48	N.A.	3.80
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	1823.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	244.51
10-20	484.47
20-30	313.79
30-40	192.11
40-50	160.51
50-60	143.27
60-70	120.70
70-80	94.90
80-90	69.48
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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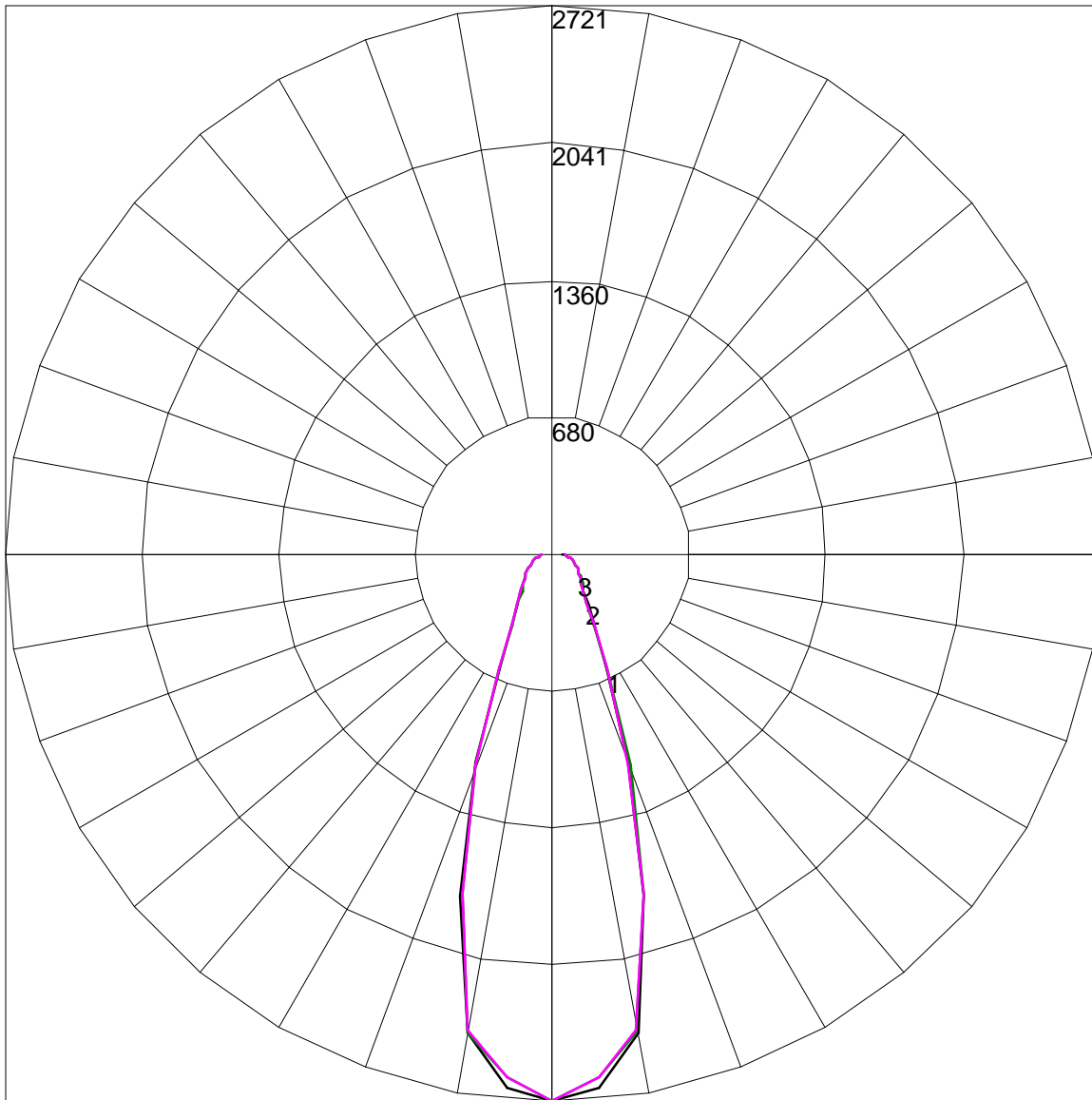
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	70	59	52	48	69	58	52	48	57	52	48	57	51	48	56	51	47	46
10	67	56	50	45	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 2720.678 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)