

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKWDE1-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] Wed Aug 31 2016

[TEST] SP-00480\_15\_M-30L

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
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	15238	15598	15508
55	12291	12542	12345
65	10152	9848	9795
75	7680	7803	7690
85	5965	5876	5872

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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>	2583.562	2583.562	2583.562	2583.562	2583.562
<b>5</b>	2508.837	2529.875	2514.502	2532.564	2497.172
<b>10</b>	2277.251	2265.695	2276.355	2258.698	2297.386
<b>15</b>	1577.787	1585.010	1583.506	1590.815	1592.630
<b>20</b>	956.312	949.860	956.842	957.232	958.393
<b>25</b>	579.881	569.424	572.151	577.239	575.291
<b>30</b>	378.130	376.096	382.463	373.502	380.304
<b>35</b>	279.304	281.221	276.772	278.603	280.878
<b>40</b>	233.947	234.095	233.596	233.729	229.786
<b>45</b>	198.766	200.683	203.457	199.023	202.288
<b>50</b>	184.826	182.793	182.270	181.507	181.413
<b>55</b>	161.240	161.855	164.528	162.066	161.941
<b>60</b>	143.840	145.181	145.804	143.225	144.752
<b>65</b>	129.877	127.259	125.989	127.243	125.311
<b>70</b>	110.880	111.106	110.911	109.018	108.722
<b>75</b>	92.772	92.990	94.260	94.221	92.896
<b>80</b>	80.289	77.398	78.762	77.764	78.847
<b>85</b>	65.616	65.203	64.642	63.910	64.588
<b>90</b>	55.518	58.666	57.871	59.219	58.837

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Zone	Lumens	%Lamp	%Fixt
0-20	670.75	N.A.	38.60
0-30	951.63	N.A.	54.80
0-40	1133.88	N.A.	65.30
0-60	1437.74	N.A.	82.80
0-80	1663.12	N.A.	95.80
0-90	1735.66	N.A.	100.00
10-90	1503.22	N.A.	86.60
20-40	463.13	N.A.	26.70
20-50	620.99	N.A.	35.80
40-70	429.96	N.A.	24.80
60-80	225.38	N.A.	13.00
70-80	99.28	N.A.	5.70
80-90	72.54	N.A.	4.20
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	1735.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	232.44
10-20	438.31
20-30	280.87
30-40	182.25
40-50	157.86
50-60	145.99
60-70	126.11
70-80	99.28
80-90	72.54
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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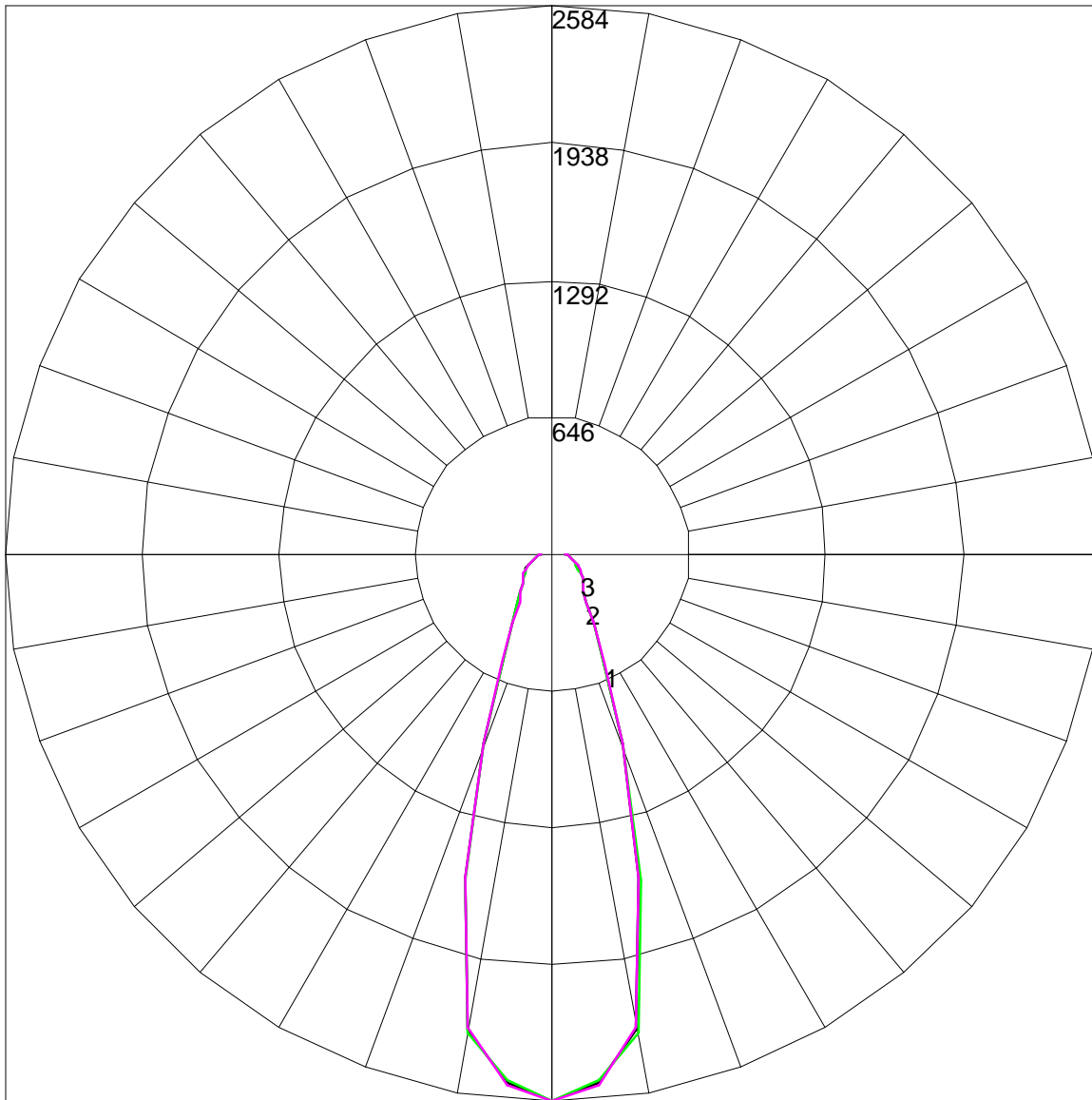
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44
10	66	55	48	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

POLAR GRAPH



Maximum Candela = 2583.562 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)