

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKMDE1-RD4FMWSO-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] Thu May 12 2016

[UPDATE] Fri May 13 2016

[TEST] SP-00480\_12\_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-30L-xxK-MD-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Medium 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	1809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
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	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19173	19209	18959
55	14837	14934	14760
65	11167	11350	11539
75	9094	9072	8707
85	6882	7019	7007

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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>	3142.568	3142.568	3142.568	3142.568	3142.568
<b>5</b>	2981.601	2944.862	2964.287	2943.771	2950.971
<b>10</b>	2538.712	2530.226	2531.792	2531.083	2555.480
<b>15</b>	1955.270	1965.711	1967.114	1978.747	1969.522
<b>20</b>	1255.346	1262.811	1261.946	1263.146	1253.600
<b>25</b>	697.649	698.085	704.794	693.301	697.548
<b>30</b>	429.518	431.069	432.666	425.685	430.633
<b>35</b>	293.922	292.792	292.223	289.769	289.644
<b>40</b>	219.805	219.306	220.693	219.166	219.524
<b>45</b>	180.058	181.273	180.393	179.006	178.047
<b>50</b>	158.380	154.173	153.752	156.572	153.440
<b>55</b>	131.848	130.804	132.713	134.498	131.163
<b>60</b>	110.865	109.610	110.117	110.046	109.743
<b>65</b>	90.582	91.572	92.070	91.805	93.598
<b>70</b>	79.206	79.019	76.658	77.873	76.743
<b>75</b>	64.479	64.253	64.323	64.946	61.736
<b>80</b>	51.295	52.479	52.183	51.809	52.448
<b>85</b>	40.285	41.734	41.087	41.079	41.017
<b>90</b>	35.181	33.467	34.480	33.685	34.035

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Zone	Lumens	%Lamp	%Fixt
0-20	802.55	N.A.	44.40
0-30	1150.81	N.A.	63.60
0-40	1342.37	N.A.	74.20
0-60	1602.6	N.A.	88.60
0-80	1762.9	N.A.	97.50
0-90	1808.82	N.A.	100.00
10-90	1539.54	N.A.	85.10
20-40	539.82	N.A.	29.80
20-50	681.51	N.A.	37.70
40-70	352.30	N.A.	19.50
60-80	160.30	N.A.	8.90
70-80	68.23	N.A.	3.80
80-90	45.92	N.A.	2.50
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	1808.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	269.28
10-20	533.27
20-30	348.26
30-40	191.56
40-50	141.69
50-60	118.54
60-70	92.07
70-80	68.23
80-90	45.92
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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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

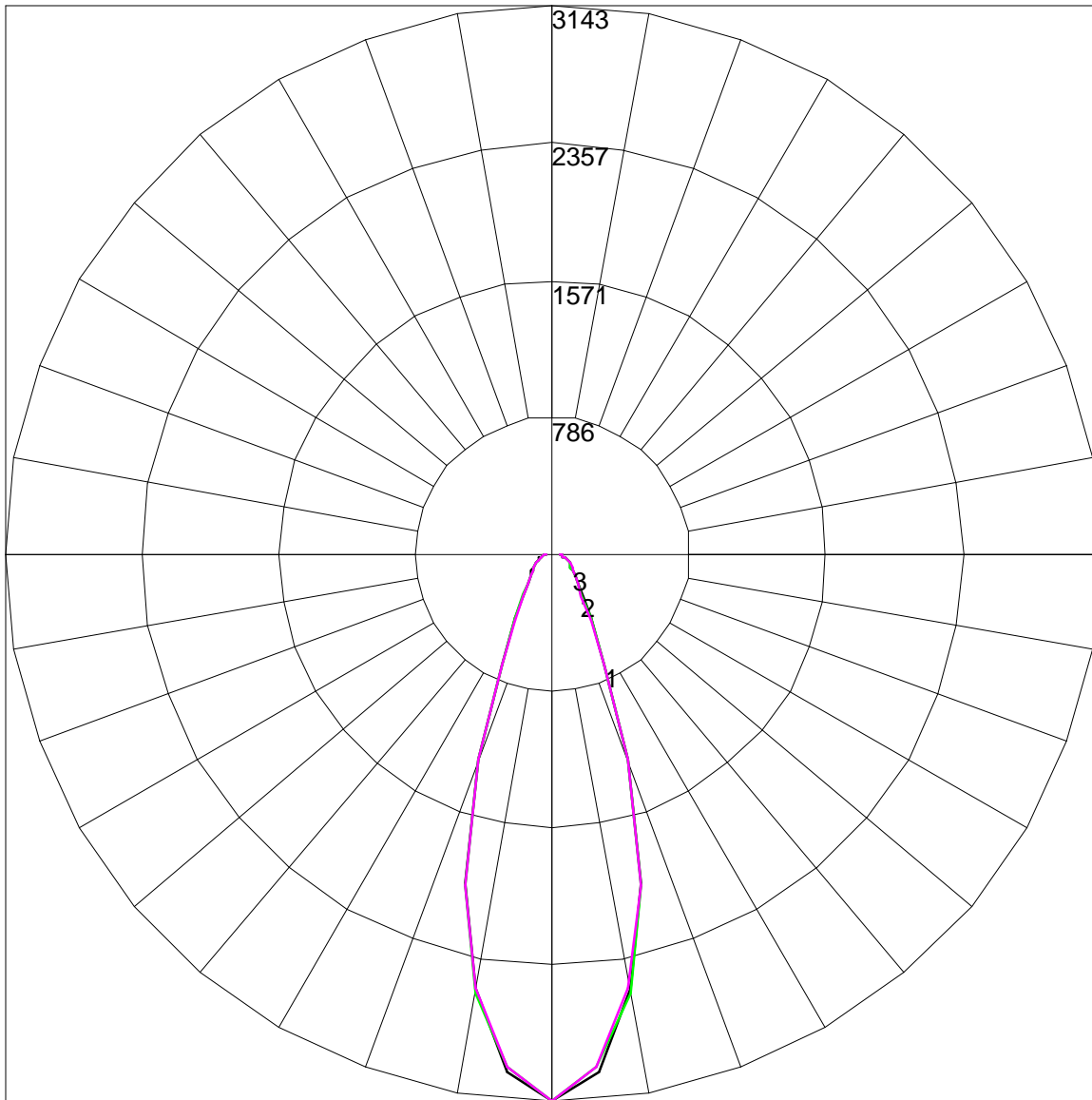
Effective Floor Cavity Reflectance 0.20

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68
5	88	79	72	67	86	78	71	67	76	70	66	74	69	66	72	68	65	63
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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## POLAR GRAPH



Maximum Candela = 3142.568 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)