

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

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00480\_18\_M-30L

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"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	1929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.66
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	20568	20711	20764
55	15530	15545	15352
65	11561	11680	11653
75	9692	9315	9233
85	7247	7329	7700

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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>	2689.463	2689.463	2689.463	2689.463	2689.463
<b>5</b>	2637.086	2617.091	2618.198	2641.231	2697.333
<b>10</b>	2514.401	2513.224	2527.296	2519.138	2484.370
<b>15</b>	2157.870	2141.522	2137.774	2141.429	2150.561
<b>20</b>	1430.572	1428.601	1423.591	1430.572	1426.855
<b>25</b>	853.886	846.375	853.559	843.655	847.287
<b>30</b>	534.484	542.082	537.547	539.448	534.905
<b>35</b>	289.192	291.896	290.081	289.839	288.288
<b>40</b>	228.843	231.641	230.433	229.381	231.446
<b>45</b>	192.844	191.995	194.184	191.590	194.683
<b>50</b>	161.037	162.276	163.741	163.344	161.489
<b>55</b>	137.794	137.490	137.926	137.544	136.212
<b>60</b>	114.075	113.724	112.742	112.890	112.774
<b>65</b>	93.644	95.499	94.610	94.883	94.392
<b>70</b>	79.665	80.039	80.655	79.658	80.756
<b>75</b>	68.632	66.248	65.959	66.287	65.383
<b>80</b>	54.474	53.515	54.739	54.022	53.289
<b>85</b>	42.373	42.957	42.856	43.487	45.022
<b>90</b>	35.781	37.495	34.939	35.843	36.802

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Zone	Lumens	%Lamp	%Fixt
0-20	818.61	N.A.	42.40
0-30	1232.89	N.A.	63.90
0-40	1441.75	N.A.	74.80
0-60	1715.17	N.A.	88.90
0-80	1880.53	N.A.	97.50
0-90	1928.7	N.A.	100.00
10-90	1680.78	N.A.	87.10
20-40	623.14	N.A.	32.30
20-50	773.36	N.A.	40.10
40-70	368.26	N.A.	19.10
60-80	165.35	N.A.	8.60
70-80	70.52	N.A.	3.70
80-90	48.17	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	1928.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	247.92
10-20	570.69
20-30	414.28
30-40	208.86
40-50	150.22
50-60	123.21
60-70	94.84
70-80	70.52
80-90	48.17
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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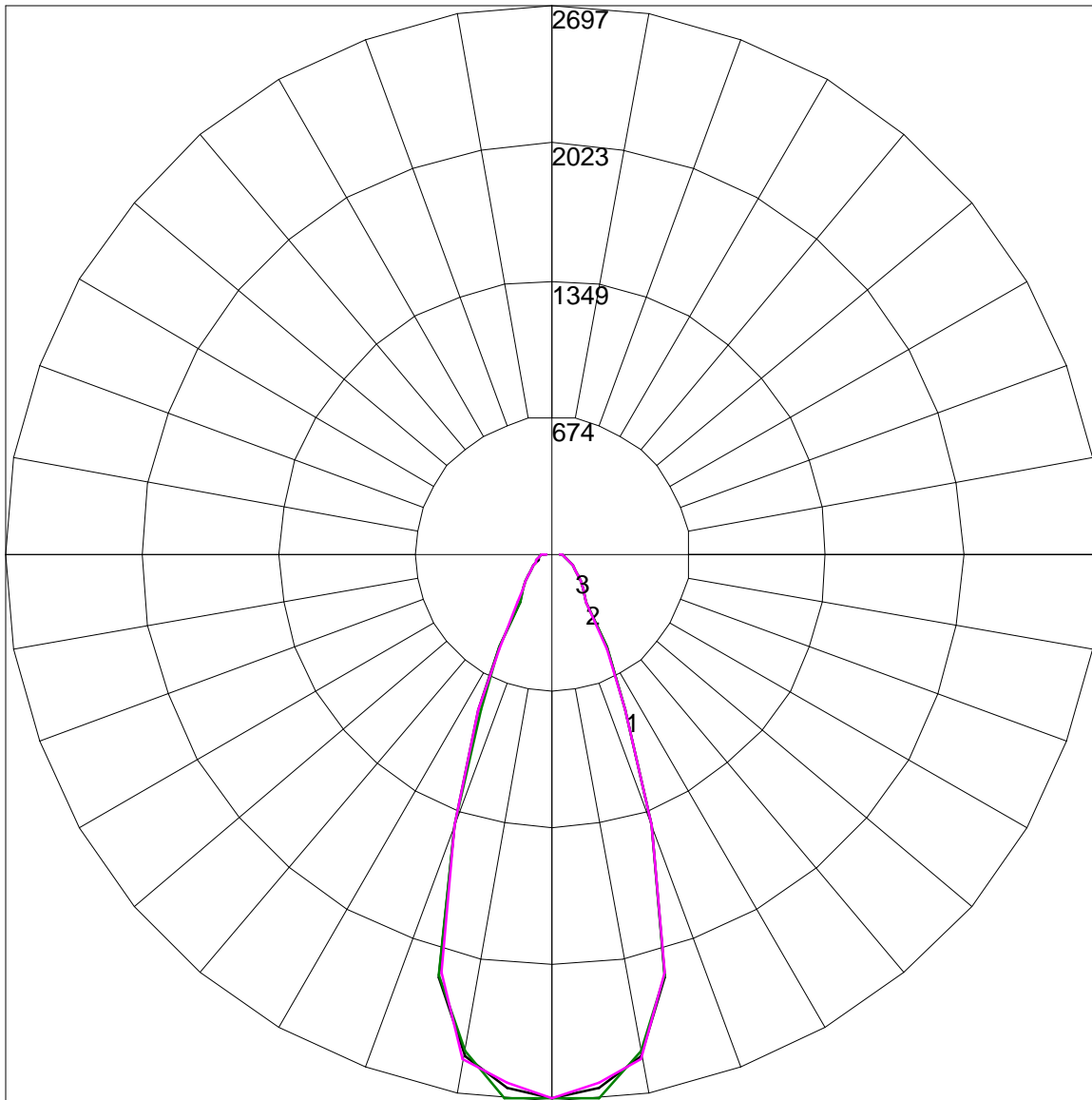
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	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	76	81	78	75	74
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	77	73	70	68
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55
8	76	65	59	54	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49
10	69	59	53	49	68	58	53	49	58	52	49	57	52	48	56	52	48	47

POLAR GRAPH



Maximum Candela = 2697.333 Located At Horizontal Angle = 90, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)