

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-40LXXKXWE1-RD6FMWSO-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] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00476\_29\_M-40L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-40L-xxK-XW-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" 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 50L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12298	12355	12700
55	9016	9033	8979
65	6977	6968	6982
75	5287	5185	5158
85	4590	4528	4617

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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>	3451.148	3451.148	3451.148	3451.148	3451.148
<b>5</b>	3457.092	3441.014	3454.074	3465.262	3492.427
<b>10</b>	3444.325	3432.021	3422.750	3415.335	3460.388
<b>15</b>	3220.579	3177.174	3211.524	3190.379	3203.924
<b>20</b>	2681.263	2661.543	2660.219	2666.741	2657.447
<b>25</b>	1691.035	1688.325	1701.446	1698.897	1688.664
<b>30</b>	923.823	919.834	901.739	910.140	894.678
<b>35</b>	561.315	563.594	565.542	559.012	557.080
<b>40</b>	297.328	310.941	293.532	292.785	300.739
<b>45</b>	226.164	234.842	227.212	228.497	233.549
<b>50</b>	188.365	189.081	189.066	184.915	185.439
<b>55</b>	151.659	153.091	151.944	153.892	151.028
<b>60</b>	127.420	124.255	125.225	124.494	124.447
<b>65</b>	102.841	105.659	102.703	103.742	102.918
<b>70</b>	79.849	82.251	82.536	82.582	77.670
<b>75</b>	64.564	64.911	63.309	64.988	62.986
<b>80</b>	53.469	53.230	53.684	52.314	54.647
<b>85</b>	42.735	43.420	42.157	44.190	42.989
<b>90</b>	36.667	37.383	35.828	34.665	37.976

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Zone	Lumens	%Lamp	%Fixt
0-20	1205.39	N.A.	41.70
0-30	1992.23	N.A.	68.90
0-40	2352.64	N.A.	81.30
0-60	2673.09	N.A.	92.40
0-80	2845.17	N.A.	98.30
0-90	2893.14	N.A.	100.00
10-90	2564.08	N.A.	88.60
20-40	1147.25	N.A.	39.70
20-50	1329.61	N.A.	46.00
40-70	422.97	N.A.	14.60
60-80	172.08	N.A.	5.90
70-80	69.56	N.A.	2.40
80-90	47.97	N.A.	1.70
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	2893.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	329.06
10-20	876.33
20-30	786.84
30-40	360.41
40-50	182.36
50-60	138.09
60-70	102.52
70-80	69.56
80-90	47.97
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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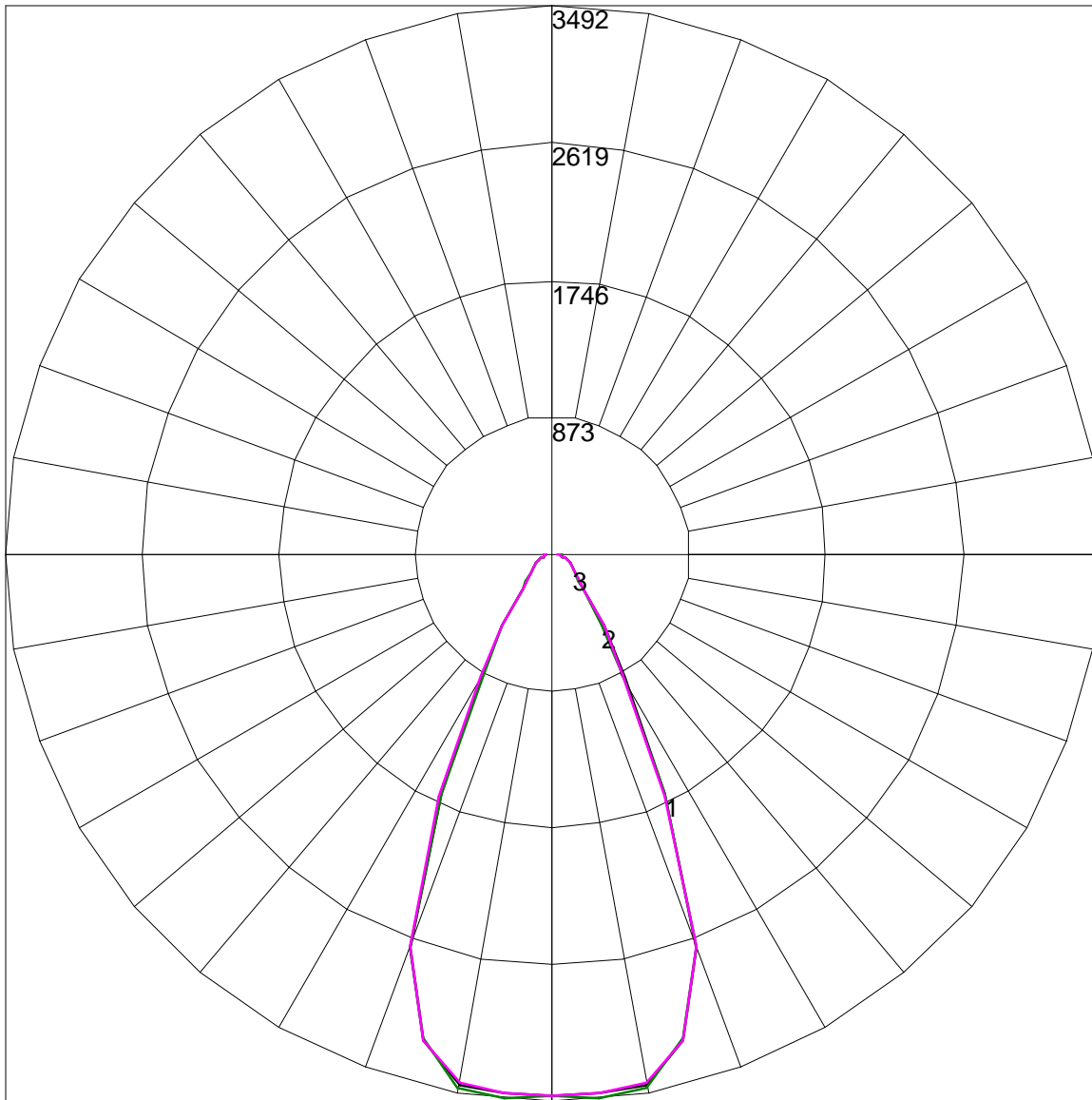
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	90	81	74	70	88	80	74	69	78	73	69	76	71	68	74	70	67	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	65	60	80	70	64	60	69	64	60	68	63	60	67	62	59	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	54	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 3492.427 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)