

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO4LEDXT-40LXXKWDE1-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] Fri Jun 10 2016

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[TEST] SP-00480\_17

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-40L-xxK-WD-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.62
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	27354	27688	27384
55	20960	21036	21312
65	16193	16545	16335
75	13187	13152	13152
85	10141	10499	10219

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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>	3376.86	3376.86	3376.86	3376.86	3376.86
<b>5</b>	3264.59	3259.30	3252.07	3234.81	3267.19
<b>10</b>	3205.79	3179.11	3173.62	3184.56	3160.54
<b>15</b>	2595.73	2572.04	2560.83	2575.83	2576.20
<b>20</b>	1610.37	1614.20	1609.25	1614.04	1606.50
<b>25</b>	875.29	881.99	887.76	878.26	882.91
<b>30</b>	550.21	546.64	548.72	544.06	536.79
<b>35</b>	355.62	361.55	356.25	360.36	362.11
<b>40</b>	300.70	303.61	305.55	300.66	305.03
<b>45</b>	256.88	257.27	260.02	258.30	257.17
<b>50</b>	223.09	223.80	220.66	222.97	220.97
<b>55</b>	186.26	187.19	186.93	188.03	189.39
<b>60</b>	153.86	158.37	155.72	155.15	153.67
<b>65</b>	131.35	132.13	134.21	133.51	132.50
<b>70</b>	110.44	112.92	113.62	111.43	112.22
<b>75</b>	93.50	93.00	93.25	93.61	93.25
<b>80</b>	76.33	77.11	76.39	76.72	76.24
<b>85</b>	59.36	60.96	61.46	60.77	59.82
<b>90</b>	54.55	53.09	51.42	52.66	52.73

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Zone	Lumens	%Lamp	%Fixt
0-20	995.62	N.A.	42.40
0-30	1437.77	N.A.	61.20
0-40	1681.55	N.A.	71.50
0-60	2051.04	N.A.	87.20
0-80	2282.54	N.A.	97.10
0-90	2350.91	N.A.	100.00
10-90	2041.52	N.A.	86.80
20-40	685.94	N.A.	29.20
20-50	886.97	N.A.	37.70
40-70	501.77	N.A.	21.30
60-80	231.51	N.A.	9.80
70-80	99.22	N.A.	4.20
80-90	68.36	N.A.	2.90
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	2350.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	309.39
10-20	686.23
20-30	442.15
30-40	243.79
40-50	201.03
50-60	168.46
60-70	132.29
70-80	99.22
80-90	68.36
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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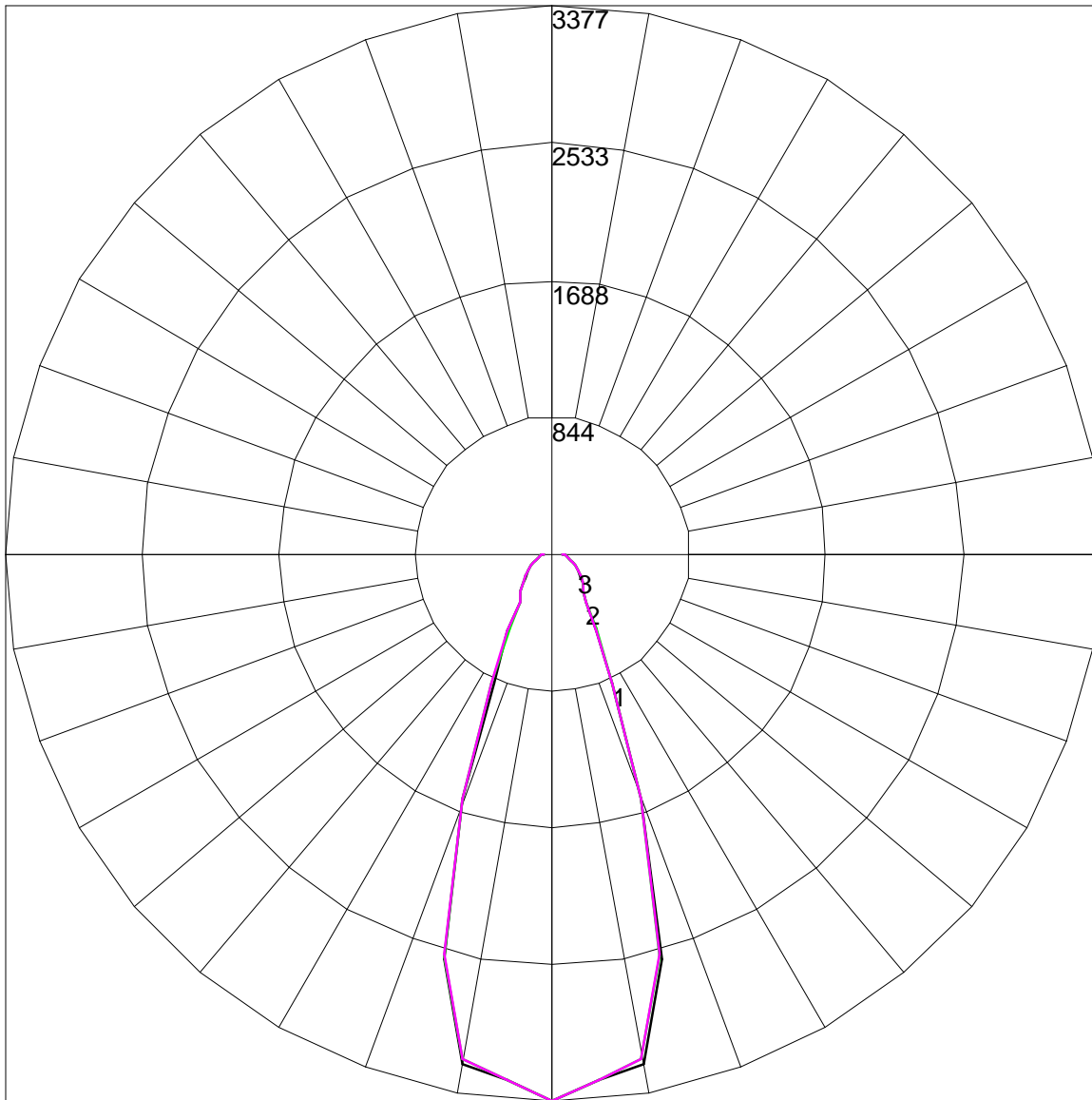
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48
10	68	58	52	48	67	57	52	48	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 3376.86 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)