

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-40LXXKNDE1-RD6FMWSO-FACY4.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri May 13 2016

[UPDATE] Tue Jun 14 2016

[TEST] SP-00476\_24\_M-40L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-40L-xxK-ND-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] Narrow 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 report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3153
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.50
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.33 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7166	7598	7501
55	5546	5379	5405
65	4228	4208	4140
75	3457	3547	3488
85	2904	2922	2975

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## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	8996.179	8996.179	8996.179	8996.179	8996.179
<b>5</b>	8296.619	8340.440	8355.701	8370.000	8355.393
<b>10</b>	6904.836	6880.050	6884.839	6906.715	6798.184
<b>15</b>	4700.326	4766.069	4764.298	4749.190	4774.462
<b>20</b>	2208.475	2232.215	2213.149	2232.122	2248.069
<b>25</b>	775.998	761.461	774.042	772.441	774.220
<b>30</b>	434.395	437.160	438.746	435.874	442.942
<b>35</b>	294.140	309.871	301.778	301.647	308.154
<b>40</b>	223.862	218.511	221.090	216.278	215.330
<b>45</b>	171.040	174.651	181.366	171.556	179.040
<b>50</b>	153.438	149.773	150.212	155.163	150.173
<b>55</b>	128.482	123.577	124.617	128.113	125.217
<b>60</b>	104.681	104.158	109.348	108.886	105.482
<b>65</b>	92.007	86.748	91.568	89.143	90.090
<b>70</b>	79.579	77.031	76.268	79.372	79.472
<b>75</b>	68.083	67.883	69.854	69.246	68.692
<b>80</b>	55.563	57.211	59.767	60.175	56.772
<b>85</b>	49.465	49.773	49.765	49.680	50.658
<b>90</b>	47.216	45.083	44.883	46.108	45.992

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Zone	Lumens	%Lamp	%Fixt
0-20	2017.61	N.A.	64.00
0-30	2484.89	N.A.	78.80
0-40	2681.21	N.A.	85.00
0-60	2934.53	N.A.	93.10
0-80	3097.18	N.A.	98.20
0-90	3152.71	N.A.	100.00
10-90	2400.59	N.A.	76.10
20-40	663.59	N.A.	21.00
20-50	802.80	N.A.	25.50
40-70	343.55	N.A.	10.90
60-80	162.65	N.A.	5.20
70-80	72.42	N.A.	2.30
80-90	55.53	N.A.	1.80
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	3152.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	752.13
10-20	1265.49
20-30	467.27
30-40	196.32
40-50	139.20
50-60	114.12
60-70	90.23
70-80	72.42
80-90	55.53
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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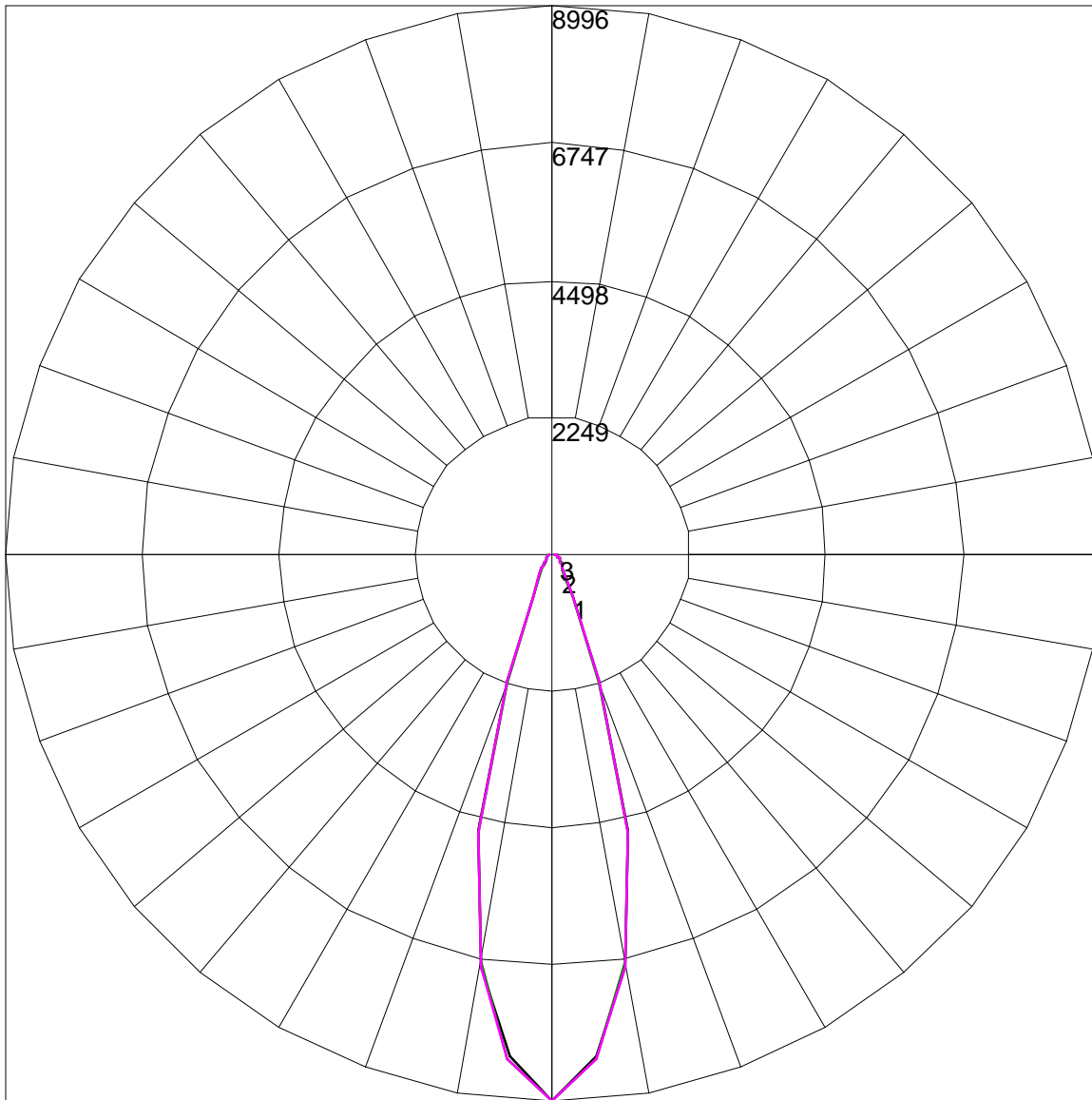
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	86	81	77	93	86	80	77	84	79	76	82	78	75	81	77	75	73
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	68	67
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60

POLAR GRAPH



Maximum Candela = 8996.179 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)