

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-30LXXKNDE1-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 May 13 2016

[UPDATE] Mon Jan 9 2017

[TEST] SP-00476\_22\_30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-30L-xxK-ND-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"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	2540
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.54
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	5879	5829	6125
55	4551	4446	4513
65	3671	3546	3487
75	2834	2906	2868
85	2661	2375	2453

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-30LXXKNDE1-RD6FMWSO-FACY2.IES****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>	6964.566	6964.566	6964.566	6964.566	6964.566
<b>5</b>	6498.426	6511.134	6441.246	6545.616	6519.516
<b>10</b>	5374.176	5317.422	5376.120	5320.854	5390.010
<b>15</b>	3720.804	3694.650	3699.126	3700.398	3731.772
<b>20</b>	2207.376	2207.178	2227.590	2218.410	2205.432
<b>25</b>	1061.628	1055.892	1057.452	1061.964	1045.200
<b>30</b>	359.208	363.150	362.100	367.080	364.752
<b>35</b>	195.810	206.598	205.542	198.948	208.110
<b>40</b>	142.302	136.836	140.952	134.850	134.712
<b>45</b>	108.108	107.094	107.190	109.320	112.632
<b>50</b>	89.298	89.196	90.072	90.954	88.908
<b>55</b>	76.542	71.106	74.778	72.534	75.918
<b>60</b>	60.462	62.010	61.074	63.420	62.202
<b>65</b>	54.108	49.962	52.272	51.228	51.396
<b>70</b>	40.764	42.948	42.144	43.392	41.532
<b>75</b>	34.602	33.654	35.490	34.782	35.022
<b>80</b>	29.160	26.826	27.606	29.280	29.232
<b>85</b>	24.780	22.014	22.110	23.214	22.842
<b>90</b>	21.174	19.236	20.382	19.542	17.622

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Zone	Lumens	%Lamp	%Fixt
0-20	1609.91	N.A.	63.40
0-30	2132.89	N.A.	84.00
0-40	2273.26	N.A.	89.50
0-60	2425.84	N.A.	95.50
0-80	2514.21	N.A.	99.00
0-90	2539.68	N.A.	100.00
10-90	1954.76	N.A.	77.00
20-40	663.35	N.A.	26.10
20-50	749.03	N.A.	29.50
40-70	203.96	N.A.	8.00
60-80	88.37	N.A.	3.50
70-80	36.98	N.A.	1.50
80-90	25.48	N.A.	1.00
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	2539.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	584.93
10-20	1024.98
20-30	522.98
30-40	140.37
40-50	85.68
50-60	66.90
60-70	51.39
70-80	36.98
80-90	25.48
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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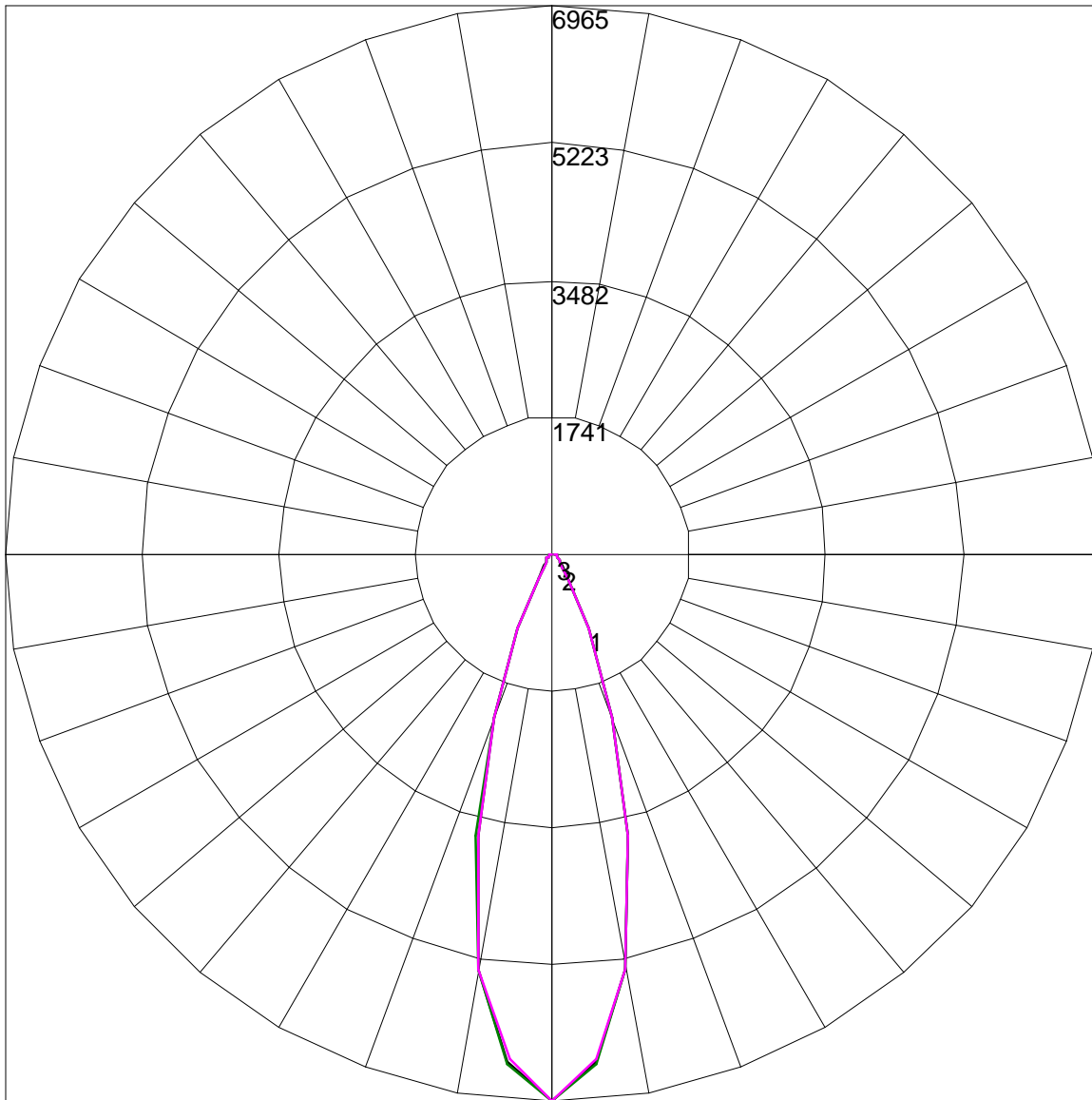
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

POLAR GRAPH



Maximum Candela = 6964.566 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)