

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : RDFO6LEDXT-30LXXKNDE1-RD6FMWSO-FACY4.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri May 13 2016

[UPDATE] Mon Jan 9 2017

[TEST] SP-00476\_24\_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-30L-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	2457
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	34.6
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	5584	5921	5845
55	4321	4191	4211
65	3294	3279	3226
75	2694	2764	2718
85	2263	2277	2318

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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>	7010.010	7010.010	7010.010	7010.010	7010.010
<b>5</b>	6464.898	6499.044	6510.936	6522.078	6510.696
<b>10</b>	5380.392	5361.078	5364.810	5381.856	5297.286
<b>15</b>	3662.592	3713.820	3712.440	3700.668	3720.360
<b>20</b>	1720.890	1739.388	1724.532	1739.316	1751.742
<b>25</b>	604.674	593.346	603.150	601.902	603.288
<b>30</b>	338.490	340.644	341.880	339.642	345.150
<b>35</b>	229.200	241.458	235.152	235.050	240.120
<b>40</b>	174.438	170.268	172.278	168.528	167.790
<b>45</b>	133.278	136.092	141.324	133.680	139.512
<b>50</b>	119.562	116.706	117.048	120.906	117.018
<b>55</b>	100.116	96.294	97.104	99.828	97.572
<b>60</b>	81.570	81.162	85.206	84.846	82.194
<b>65</b>	71.694	67.596	71.352	69.462	70.200
<b>70</b>	62.010	60.024	59.430	61.848	61.926
<b>75</b>	53.052	52.896	54.432	53.958	53.526
<b>80</b>	43.296	44.580	46.572	46.890	44.238
<b>85</b>	38.544	38.784	38.778	38.712	39.474
<b>90</b>	36.792	35.130	34.974	35.928	35.838

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Zone	Lumens	%Lamp	%Fixt
0-20	1572.17	N.A.	64.00
0-30	1936.28	N.A.	78.80
0-40	2089.25	N.A.	85.00
0-60	2286.65	N.A.	93.10
0-80	2413.39	N.A.	98.20
0-90	2456.66	N.A.	100.00
10-90	1870.59	N.A.	76.10
20-40	517.09	N.A.	21.00
20-50	625.56	N.A.	25.50
40-70	267.70	N.A.	10.90
60-80	126.74	N.A.	5.20
70-80	56.43	N.A.	2.30
80-90	43.27	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	2456.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	586.07
10-20	986.09
20-30	364.11
30-40	152.98
40-50	108.47
50-60	88.93
60-70	70.31
70-80	56.43
80-90	43.27
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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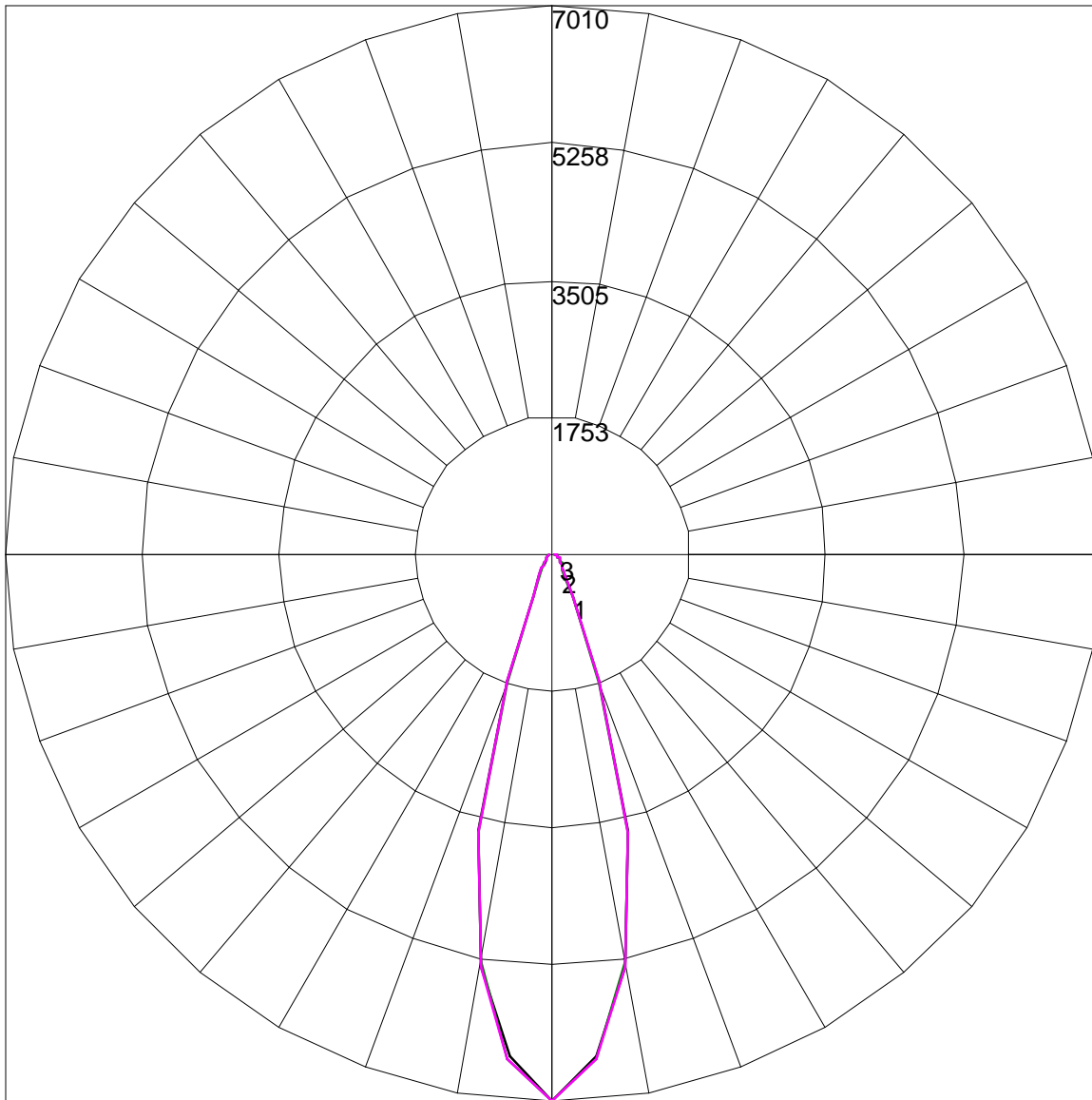
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	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 = 7010.01 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)