

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKNDE1-RD4FMWSO-FACY2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu May 12 2016

[UPDATE] Fri May 13 2016

[TEST] SP-00480_11_M-30L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-30L-xxK-ND-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" 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 40L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2275
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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)	0.33 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	13052	13547	13482
55	10416	10343	10334
65	8300	8297	8308
75	6988	7009	6972
85	5693	5923	5731

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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>
0	6594.681	6594.681	6594.681	6594.681	6594.681
5	6064.241	6144.187	6138.888	6133.808	6124.839
10	5065.229	5095.462	5105.357	5122.812	5116.360
15	3420.306	3392.021	3428.893	3417.221	3414.439
20	1601.053	1619.458	1609.695	1622.162	1605.362
25	610.230	604.620	610.301	610.106	599.002
30	274.972	277.793	277.302	278.502	280.356
35	173.341	178.071	171.798	177.065	180.190
40	141.098	140.303	142.617	141.947	141.012
45	122.576	124.727	127.220	124.204	126.612
50	108.169	108.901	106.260	106.976	104.319
55	92.561	92.008	91.914	90.917	91.829
60	77.359	78.442	79.284	77.928	75.980
65	67.323	66.879	67.300	67.027	67.393
70	58.970	58.253	58.939	58.354	57.762
75	49.549	49.791	49.697	49.479	49.432
80	41.064	41.750	42.708	42.116	40.963
85	33.326	33.381	34.674	32.851	33.545
90	30.163	28.721	28.215	28.527	30.732

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-30LXXKNDE1-RD4FMWSO-FACY2.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1473.47	N.A.	64.80
0-30	1818.44	N.A.	79.90
0-40	1938.21	N.A.	85.20
0-60	2117.02	N.A.	93.10
0-80	2236.87	N.A.	98.30
0-90	2274.51	N.A.	100.00
10-90	1720.63	N.A.	75.60
20-40	464.75	N.A.	20.40
20-50	561.06	N.A.	24.70
40-70	245.92	N.A.	10.80
60-80	119.85	N.A.	5.30
70-80	52.74	N.A.	2.30
80-90	37.64	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	2274.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	553.88
10-20	919.59
20-30	344.97
30-40	119.77
40-50	96.31
50-60	82.50
60-70	67.11
70-80	52.74
80-90	37.64
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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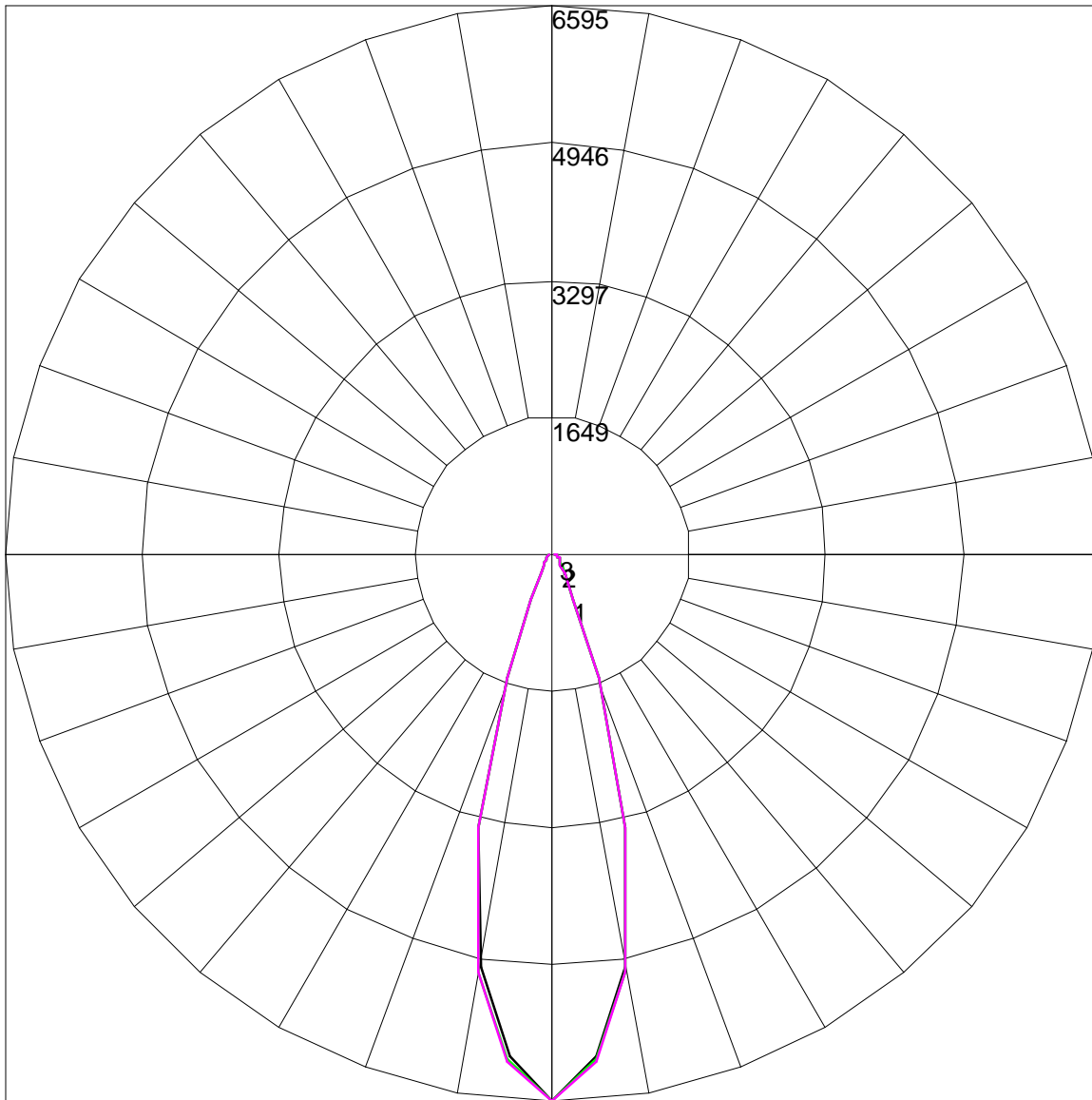
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 6594.681 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)