

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-10LXXKNDE1-RD4FMWSO-FACY4.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] Thu Jun 9 2016

[TEST] SP-00480_13_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-10L-xxK-ND-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" 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 40L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.46
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3463	3516	3523
55	2822	2800	2835
65	2310	2345	2324
75	1860	1877	1921
85	1531	1506	1484

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-10LXXKNDE1-RD4FMWSO-FACY4.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2121.723	2121.723	2121.723	2121.723	2121.723
5	1972.866	1962.627	1959.567	1978.051	1971.593
10	1565.701	1579.477	1574.941	1575.442	1561.784
15	875.190	880.476	876.022	874.902	887.492
20	376.777	378.248	373.850	374.539	373.036
25	171.641	169.979	170.849	171.851	170.724
30	91.464	93.108	93.233	92.747	91.487
35	65.184	65.479	65.519	65.336	64.898
40	53.365	53.816	53.445	53.017	51.932
45	45.171	45.712	45.862	46.148	45.955
50	40.707	40.925	41.367	41.981	40.622
55	37.026	37.457	36.735	36.888	37.189
60	33.573	33.620	33.297	33.260	33.661
65	29.558	29.696	30.007	29.696	29.731
70	25.879	26.183	26.341	26.285	26.230
75	22.471	22.702	22.679	23.058	23.211
80	19.893	19.554	19.276	19.394	19.622
85	16.838	16.334	16.570	16.610	16.322
90	14.825	14.896	14.710	14.891	14.708

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Zone	Lumens	%Lamp	%Fixt
0-20	424.32	N.A.	60.70
0-30	514.98	N.A.	73.60
0-40	558.03	N.A.	79.80
0-60	627.28	N.A.	89.70
0-80	680.96	N.A.	97.40
0-90	699.33	N.A.	100.00
10-90	523.74	N.A.	74.90
20-40	133.71	N.A.	19.10
20-50	169.64	N.A.	24.30
40-70	98.79	N.A.	14.10
60-80	53.68	N.A.	7.70
70-80	24.14	N.A.	3.50
80-90	18.37	N.A.	2.60
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	699.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.58
10-20	248.74
20-30	90.66
30-40	43.05
40-50	35.93
50-60	33.32
60-70	29.54
70-80	24.14
80-90	18.37
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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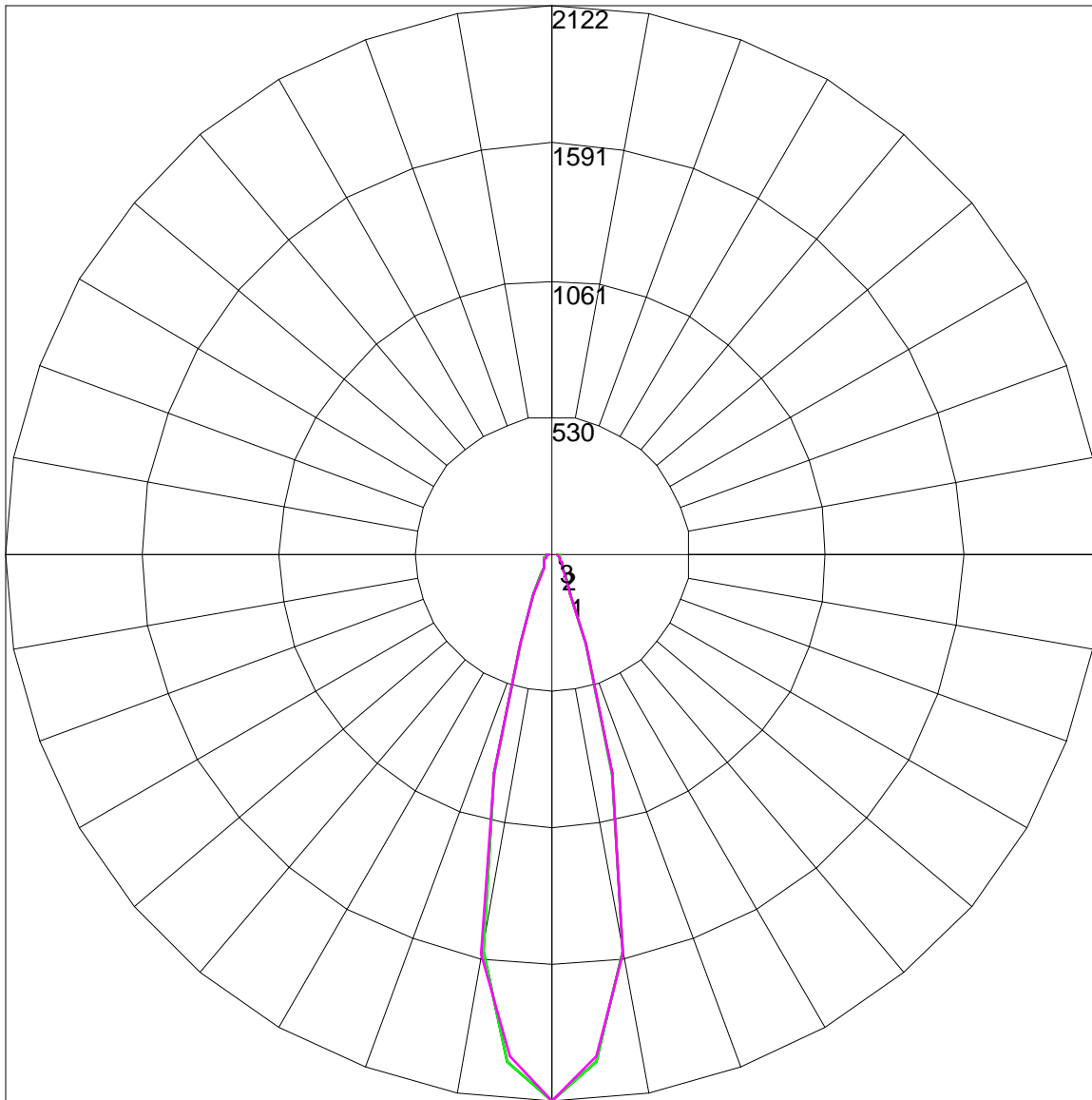
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	75	74
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58

POLAR GRAPH



Maximum Candela = 2121.723 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)