

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKNDE1-RD4FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Thu May 12 2016

[UPDATE] Thu Jun 9 2016

[TEST] SP-00480_13_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-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	1450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	23.7
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	7179	7289	7303
55	5851	5805	5877
65	4789	4862	4817
75	3856	3892	3983
85	3173	3123	3076

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKNDE1-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	4398.383	4398.383	4398.383	4398.383	4398.383
5	4089.800	4068.573	4062.230	4100.549	4087.161
10	3245.737	3274.294	3264.891	3265.930	3237.618
15	1814.291	1825.248	1816.016	1813.694	1839.794
20	781.068	784.118	775.001	776.429	773.312
25	355.816	352.372	354.174	356.252	353.915
30	189.607	193.015	193.275	192.267	189.654
35	135.127	135.740	135.823	135.444	134.535
40	110.628	111.563	110.794	109.905	107.656
45	93.640	94.762	95.074	95.666	95.266
50	84.388	84.840	85.754	87.027	84.211
55	76.756	77.650	76.154	76.470	77.094
60	69.597	69.696	69.026	68.948	69.779
65	61.275	61.561	62.205	61.561	61.633
70	53.649	54.277	54.605	54.490	54.376
75	46.584	47.062	47.015	47.799	48.116
80	41.238	40.537	39.960	40.204	40.677
85	34.905	33.861	34.349	34.432	33.835
90	30.734	30.879	30.495	30.869	30.489

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Zone	Lumens	%Lamp	%Fixt
0-20	879.63	N.A.	60.70
0-30	1067.58	N.A.	73.60
0-40	1156.81	N.A.	79.80
0-60	1300.37	N.A.	89.70
0-80	1411.65	N.A.	97.40
0-90	1449.72	N.A.	100.00
10-90	1085.73	N.A.	74.90
20-40	277.18	N.A.	19.10
20-50	351.67	N.A.	24.30
40-70	204.79	N.A.	14.10
60-80	111.28	N.A.	7.70
70-80	50.04	N.A.	3.50
80-90	38.08	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	1449.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	363.99
10-20	515.64
20-30	187.94
30-40	89.24
40-50	74.49
50-60	69.06
60-70	61.24
70-80	50.04
80-90	38.08
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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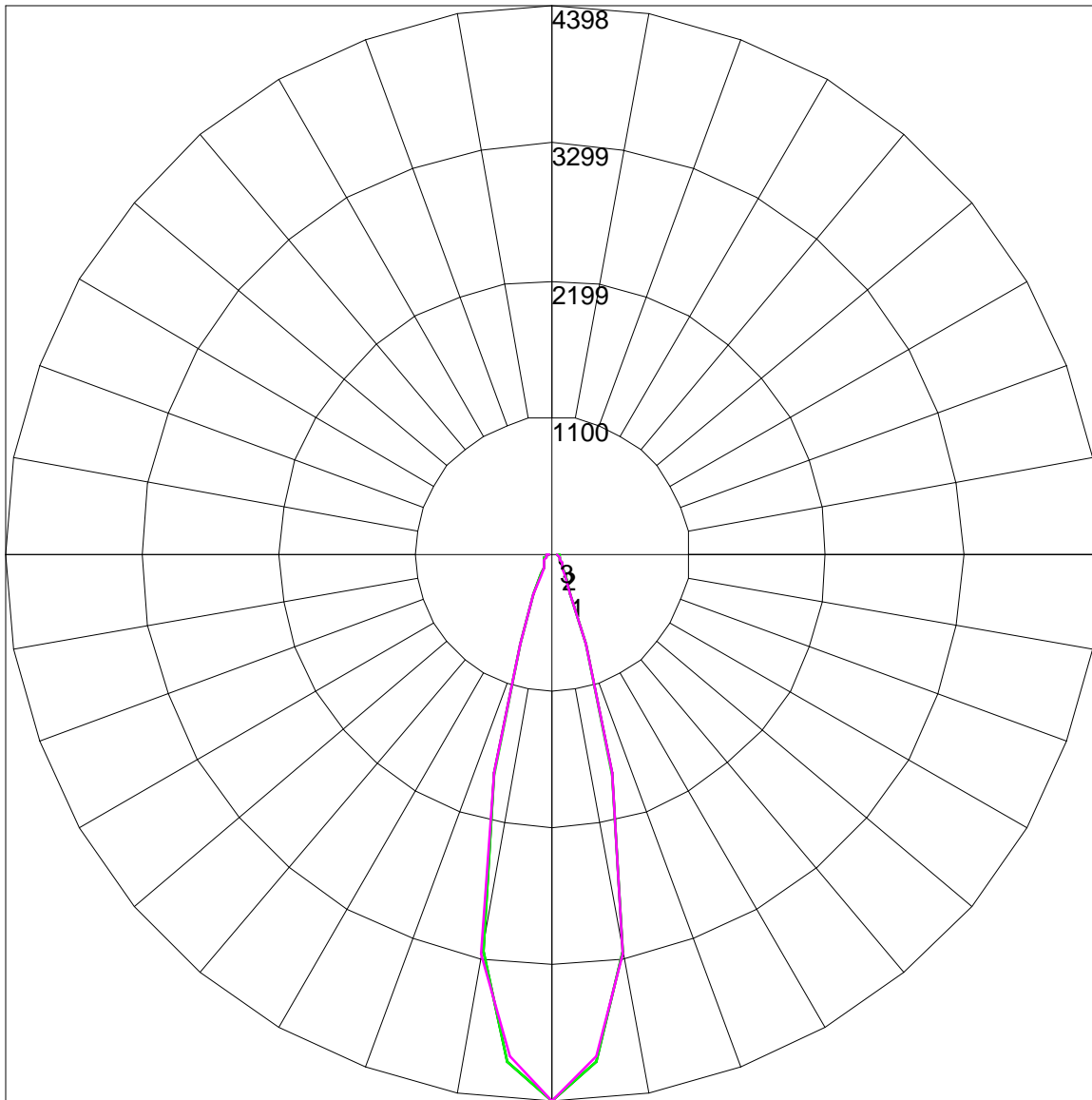
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	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	87	85	84
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	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	70	67	75	70	66	73	69	66	72	69	66	64
8	82	73	68	64	81	73	68	64	72	67	64	71	66	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 = 4398.383 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)