

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKNDE1-RD6FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Fri May 13 2016

[UPDATE] Thu Jun 9 2016

[TEST] SP-00476_24

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-50L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4094
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	54
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	9306	9868	9741
55	7202	6985	7019
65	5491	5464	5376
75	4489	4606	4529
85	3772	3795	3863

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKNDE1-RD6FMWSO-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	11683.35	11683.35	11683.35	11683.35	11683.35
5	10774.83	10831.74	10851.56	10870.13	10851.16
10	8967.32	8935.13	8941.35	8969.76	8828.81
15	6104.32	6189.70	6187.40	6167.78	6200.60
20	2868.15	2898.98	2874.22	2898.86	2919.57
25	1007.79	988.91	1005.25	1003.17	1005.48
30	564.15	567.74	569.80	566.07	575.25
35	382.00	402.43	391.92	391.75	400.20
40	290.73	283.78	287.13	280.88	279.65
45	222.13	226.82	235.54	222.80	232.52
50	199.27	194.51	195.08	201.51	195.03
55	166.86	160.49	161.84	166.38	162.62
60	135.95	135.27	142.01	141.41	136.99
65	119.49	112.66	118.92	115.77	117.00
70	103.35	100.04	99.05	103.08	103.21
75	88.42	88.16	90.72	89.93	89.21
80	72.16	74.30	77.62	78.15	73.73
85	64.24	64.64	64.63	64.52	65.79
90	61.32	58.55	58.29	59.88	59.73

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Zone	Lumens	%Lamp	%Fixt
0-20	2620.28	N.A.	64.00
0-30	3227.13	N.A.	78.80
0-40	3482.09	N.A.	85.00
0-60	3811.08	N.A.	93.10
0-80	4022.31	N.A.	98.20
0-90	4094.44	N.A.	100.00
10-90	3117.65	N.A.	76.10
20-40	861.81	N.A.	21.00
20-50	1042.59	N.A.	25.50
40-70	446.17	N.A.	10.90
60-80	211.23	N.A.	5.20
70-80	94.06	N.A.	2.30
80-90	72.12	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	4094.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	976.79
10-20	1643.49
20-30	606.85
30-40	254.96
40-50	180.78
50-60	148.21
60-70	117.18
70-80	94.06
80-90	72.12
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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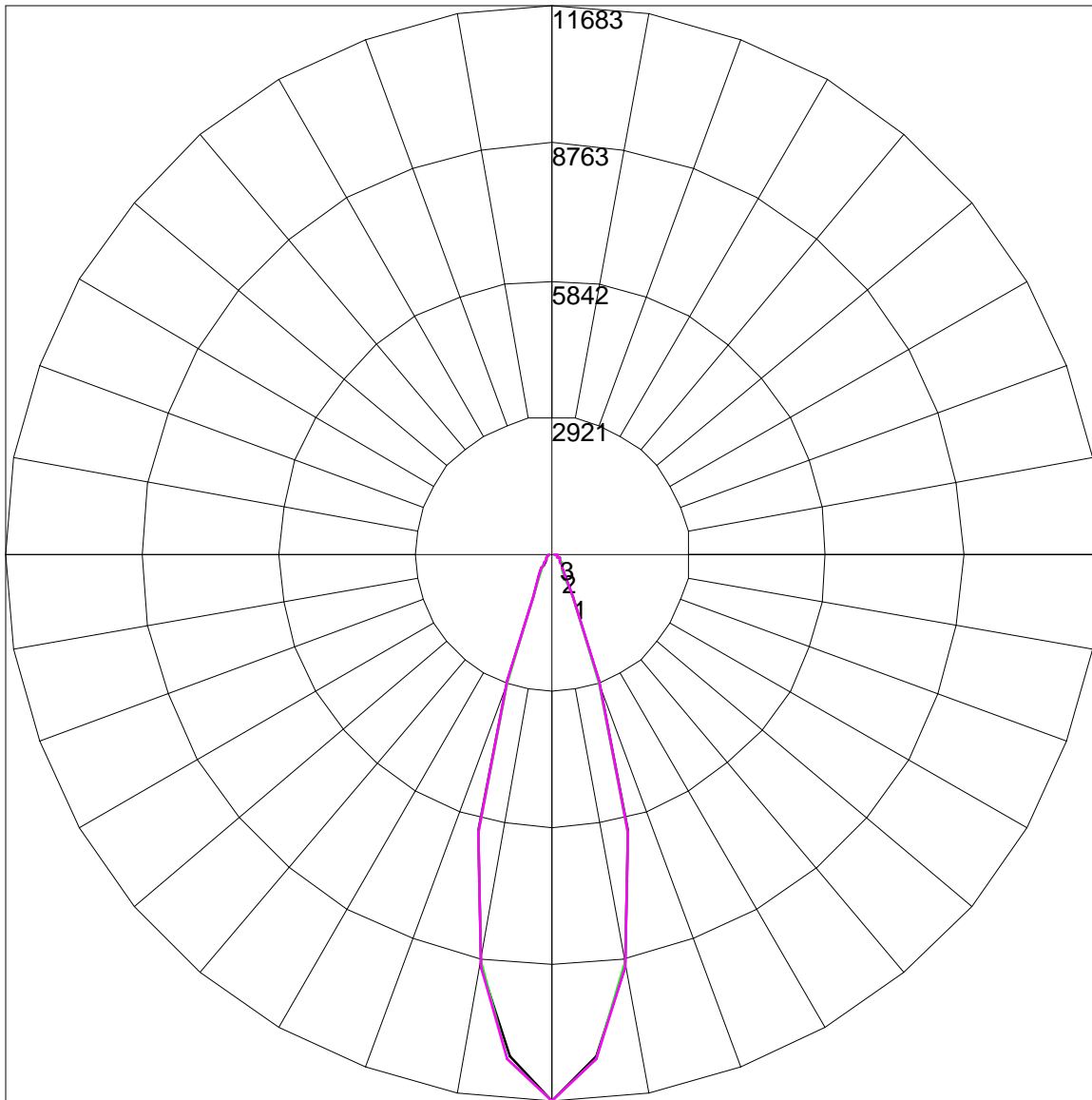
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	92	90	92	90	88	86
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77
5	94	87	81	77	93	86	80	77	84	79	76	82	78	75	81	77	75	73
6	91	83	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	69	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 = 11683.35 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)