

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO6LEDXT-50LXXKXWE1-RD6FMWSO-FACY2.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Tue Jan 10 2017

[TEST] SP-00476_29

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-50L-xxK-XW-E1-RD6F-MW-SO-FACY2

[LUMINAIRE] 6" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Xtra Wide 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	3757
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	54
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.76
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15972	16045	16493
55	11710	11732	11661
65	9061	9049	9068
75	6867	6733	6699
85	5961	5880	5996

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4482.01	4482.01	4482.01	4482.01	4482.01
5	4489.73	4468.85	4485.81	4500.34	4535.62
10	4473.15	4457.17	4445.13	4435.50	4494.01
15	4182.57	4126.20	4170.81	4143.35	4160.94
20	3482.16	3456.55	3454.83	3463.30	3451.23
25	2196.15	2192.63	2209.67	2206.36	2193.07
30	1199.77	1194.59	1171.09	1182.00	1161.92
35	728.98	731.94	734.47	725.99	723.48
40	386.14	403.82	381.21	380.24	390.57
45	293.72	304.99	295.08	296.75	303.31
50	244.63	245.56	245.54	240.15	240.83
55	196.96	198.82	197.33	199.86	196.14
60	165.48	161.37	162.63	161.68	161.62
65	133.56	137.22	133.38	134.73	133.66
70	103.70	106.82	107.19	107.25	100.87
75	83.85	84.30	82.22	84.40	81.80
80	69.44	69.13	69.72	67.94	70.97
85	55.50	56.39	54.75	57.39	55.83
90	47.62	48.55	46.53	45.02	49.32

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Zone	Lumens	%Lamp	%Fixt
0-20	1565.44	N.A.	41.70
0-30	2587.31	N.A.	68.90
0-40	3055.38	N.A.	81.30
0-60	3471.55	N.A.	92.40
0-80	3695.03	N.A.	98.30
0-90	3757.33	N.A.	100.00
10-90	3329.98	N.A.	88.60
20-40	1489.93	N.A.	39.70
20-50	1726.76	N.A.	46.00
40-70	549.31	N.A.	14.60
60-80	223.48	N.A.	5.90
70-80	90.34	N.A.	2.40
80-90	62.30	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	3757.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	427.35
10-20	1138.09
20-30	1021.87
30-40	468.06
40-50	236.83
50-60	179.34
60-70	133.14
70-80	90.34
80-90	62.30
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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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

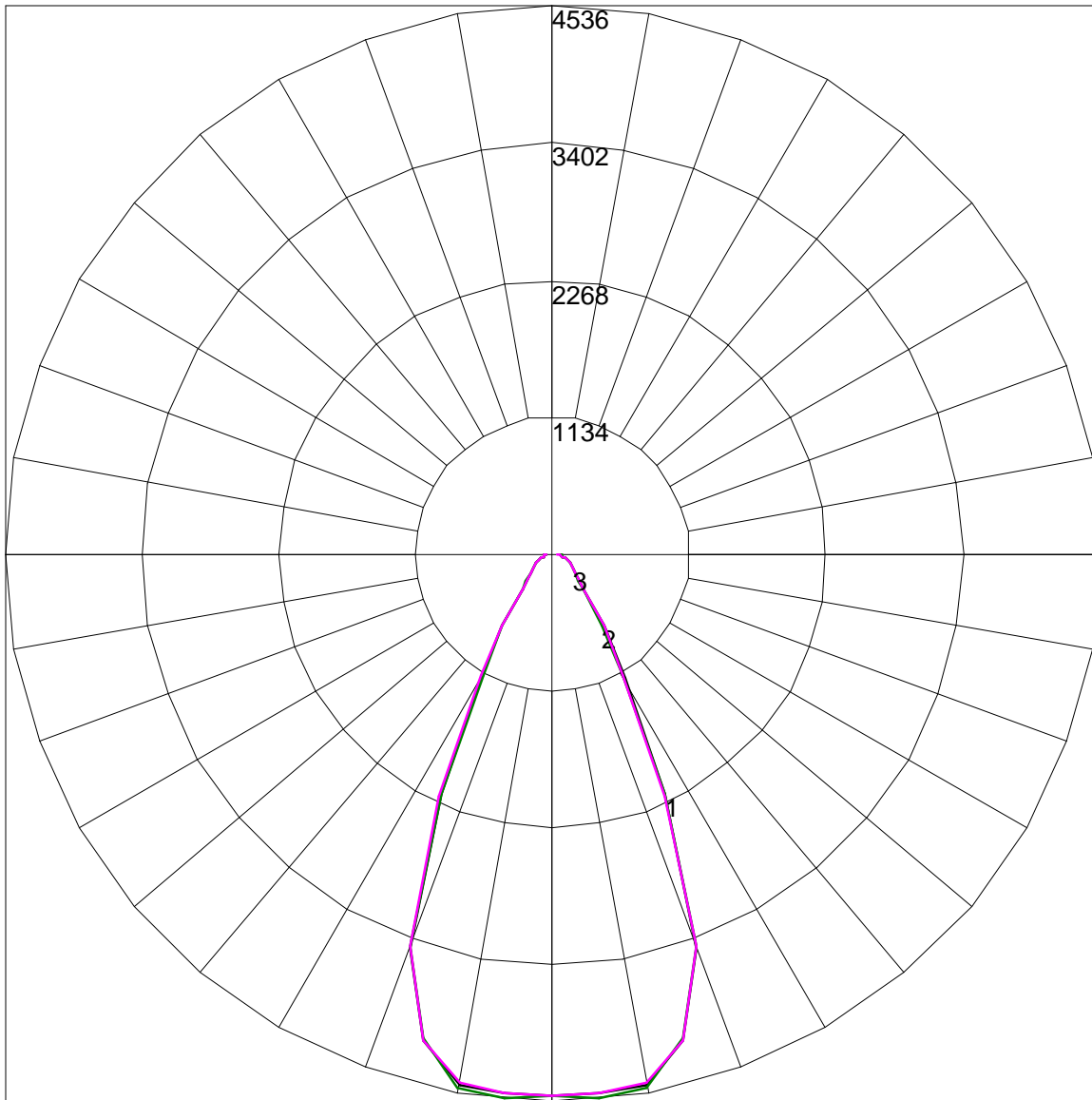
Effective Floor Cavity Reflectance 0.20

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	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	90	81	74	70	88	80	74	69	78	73	69	76	71	68	74	70	67	66
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61
7	81	71	65	60	80	70	64	60	69	64	60	68	63	60	67	62	59	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 4535.62 Located At Horizontal Angle = 90, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)