

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-10LXXKXWE1-RD4FMWSO-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-00480_18_M-10L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-10L-xxK-XW-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" 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, scaled from 40L report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	620
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.66
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	6615	6661	6678
55	4995	4999	4937
65	3718	3757	3748
75	3117	2996	2970
85	2331	2357	2476

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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	864.963	864.963	864.963	864.963	864.963
5	848.118	841.688	842.044	849.451	867.495
10	808.661	808.283	812.809	810.185	799.003
15	693.997	688.739	687.534	688.709	691.646
20	460.089	459.455	457.844	460.089	458.894
25	274.620	272.204	274.515	271.330	272.497
30	171.897	174.340	172.881	173.493	172.032
35	93.008	93.877	93.293	93.216	92.717
40	73.599	74.498	74.110	73.772	74.436
45	62.021	61.748	62.452	61.618	62.612
50	51.792	52.190	52.661	52.533	51.937
55	44.316	44.218	44.359	44.236	43.807
60	36.688	36.575	36.259	36.307	36.269
65	30.117	30.714	30.428	30.516	30.358
70	25.621	25.742	25.940	25.619	25.972
75	22.073	21.306	21.213	21.319	21.028
80	17.519	17.211	17.605	17.374	17.139
85	13.628	13.816	13.783	13.986	14.480
90	11.508	12.059	11.237	11.528	11.836

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Zone	Lumens	%Lamp	%Fixt
0-20	263.27	N.A.	42.40
0-30	396.51	N.A.	63.90
0-40	463.68	N.A.	74.80
0-60	551.62	N.A.	88.90
0-80	604.80	N.A.	97.50
0-90	620.29	N.A.	100.00
10-90	540.56	N.A.	87.10
20-40	200.41	N.A.	32.30
20-50	248.72	N.A.	40.10
40-70	118.44	N.A.	19.10
60-80	53.18	N.A.	8.60
70-80	22.68	N.A.	3.70
80-90	15.49	N.A.	2.50
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	620.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.73
10-20	183.54
20-30	133.24
30-40	67.17
40-50	48.31
50-60	39.62
60-70	30.50
70-80	22.68
80-90	15.49
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

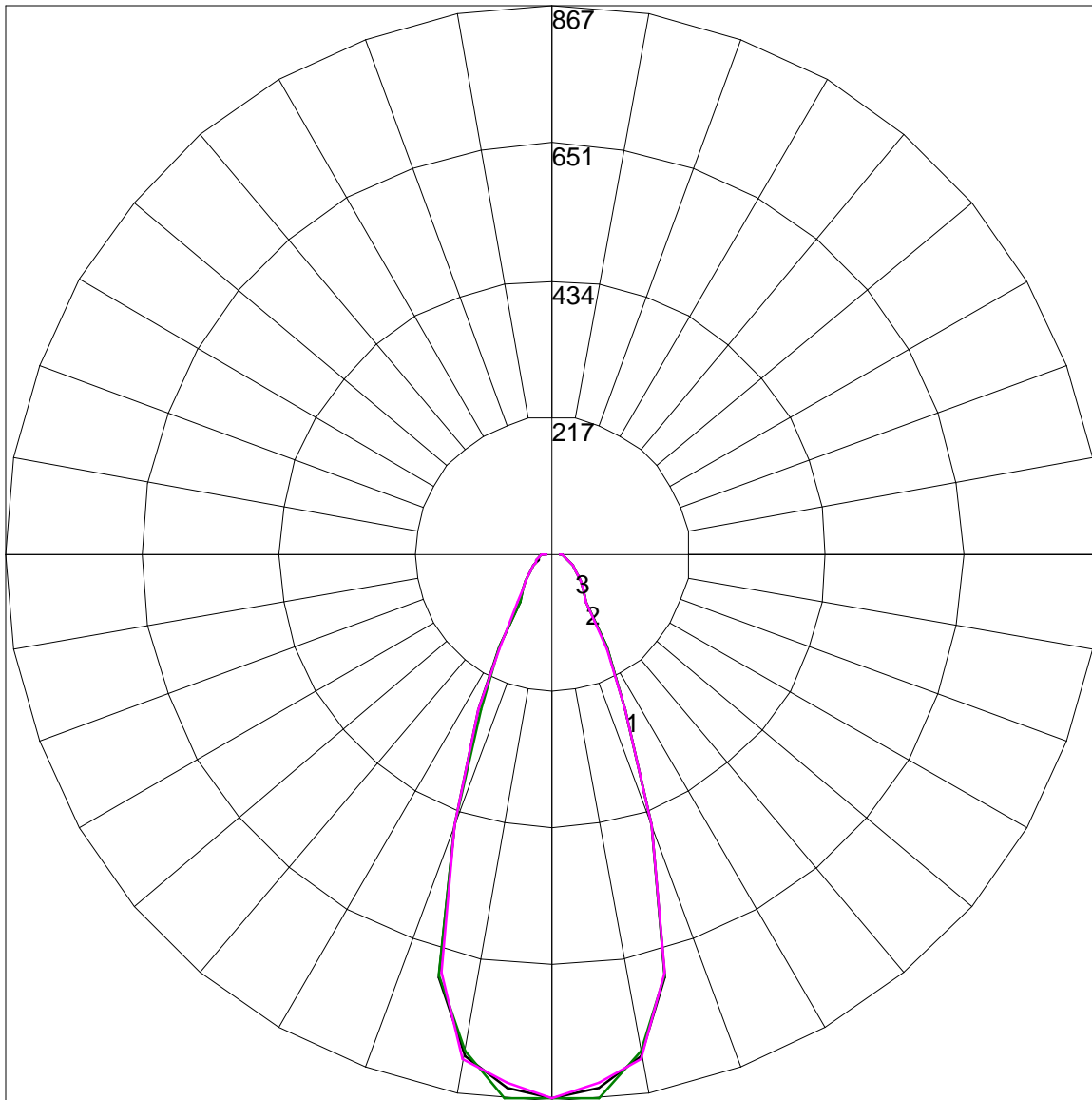
Effective Floor Cavity Reflectance 0.20

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	111	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63
6	84	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	60	59
7	79	69	63	58	78	69	62	58	67	62	57	66	61	57	65	60	57	55
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47

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POLAR GRAPH



Maximum Candela = 867.495 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)