

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-13LXXKXWE1-RD4FMWSO-FACY4.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_16_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-13L-xxK-XW-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"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	790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.60
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	6701	6817	6881
55	5310	5285	5326
65	4076	4129	4152
75	3179	3244	3241
85	2446	2482	2459

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-13LXXKXWE1-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	1179.123	1179.123	1179.123	1179.123	1179.123
5	1154.188	1131.177	1131.359	1145.512	1135.327
10	1048.690	1054.380	1044.955	1052.219	1045.026
15	764.246	759.633	758.359	764.080	758.812
20	480.132	485.771	482.583	483.843	484.782
25	274.962	274.530	271.632	275.354	271.545
30	172.595	171.173	174.250	173.132	176.266
35	130.754	128.870	128.009	127.978	127.269
40	104.309	104.869	104.538	103.644	103.667
45	87.289	88.866	88.798	89.136	89.626
50	78.539	79.059	78.860	78.063	77.674
55	69.559	68.472	69.242	69.384	69.769
60	60.256	60.489	60.786	60.452	60.155
65	52.080	53.029	52.752	52.468	53.053
70	45.279	45.302	44.884	45.414	45.309
75	38.359	39.224	39.146	38.788	39.112
80	33.196	32.264	32.514	32.490	32.227
85	26.881	26.989	27.269	26.871	27.019
90	22.960	24.078	24.325	23.815	23.757

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Zone	Lumens	%Lamp	%Fixt
0-20	315.93	N.A.	40.00
0-30	451.93	N.A.	57.20
0-40	535.19	N.A.	67.70
0-60	666.84	N.A.	84.40
0-80	760.28	N.A.	96.20
0-90	790.39	N.A.	100.00
10-90	684.43	N.A.	86.60
20-40	219.25	N.A.	27.70
20-50	288.81	N.A.	36.50
40-70	183.97	N.A.	23.30
60-80	93.44	N.A.	11.80
70-80	41.13	N.A.	5.20
80-90	30.11	N.A.	3.80
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	790.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.97
10-20	209.97
20-30	135.99
30-40	83.26
40-50	69.56
50-60	62.09
60-70	52.31
70-80	41.13
80-90	30.11
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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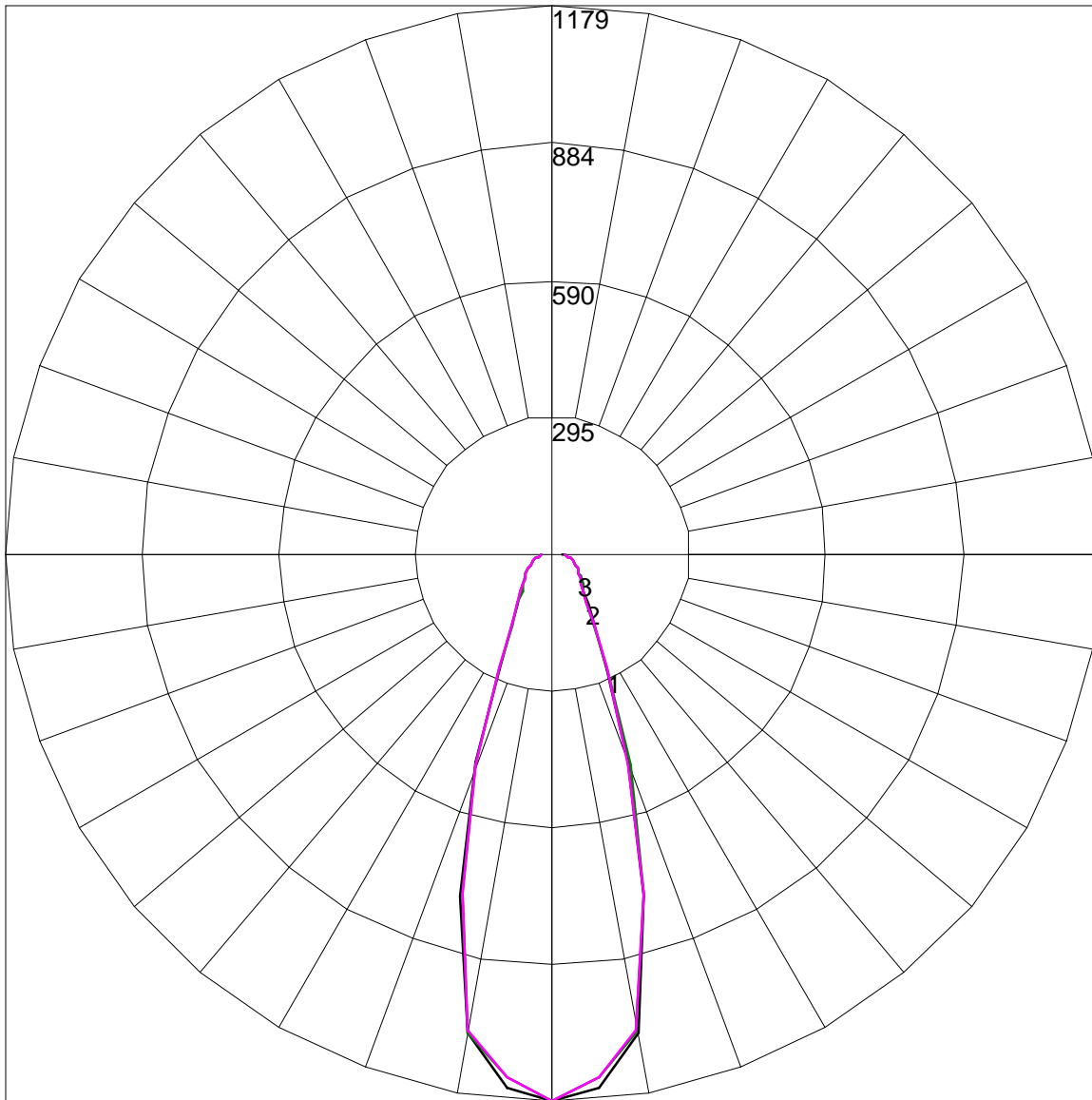
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	75	68	63	84	74	68	62	72	66	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	67	56	50	45	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 1179.123 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)