

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : RDFO6LEDXT-13LXXKXWE1-RD6FMWSO-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-00476\_27\_M-13L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO6LEDXT-13L-xxK-XW-E1-RD6F-MW-SO-FACY4

[LUMINAIRE] 6" 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 50L report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.70
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	4036	3933	3948
55	2874	2809	2800
65	2039	2107	2061
75	1630	1601	1629
85	1428	1456	1419

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1165.915	1165.915	1165.915	1165.915	1165.915
<b>5</b>	1124.664	1167.509	1165.629	1187.540	1163.230
<b>10</b>	1172.717	1150.609	1151.574	1153.594	1152.159
<b>15</b>	1066.780	1068.129	1051.760	1058.088	1070.758
<b>20</b>	702.343	705.528	699.618	700.237	710.624
<b>25</b>	423.938	422.677	426.993	425.196	424.681
<b>30</b>	231.730	228.394	229.827	229.115	227.206
<b>35</b>	159.328	157.560	154.978	154.877	156.367
<b>40</b>	113.118	117.044	116.145	115.024	118.641
<b>45</b>	96.346	93.857	93.889	92.716	94.234
<b>50</b>	82.051	81.203	80.070	81.133	82.069
<b>55</b>	66.583	65.387	65.068	65.998	64.873
<b>60</b>	54.171	52.965	54.077	53.589	54.129
<b>65</b>	44.374	45.885	45.851	46.030	44.853
<b>70</b>	38.311	37.302	38.160	38.431	38.714
<b>75</b>	32.097	33.082	31.528	32.469	32.081
<b>80</b>	29.182	27.820	27.230	27.786	28.114
<b>85</b>	24.328	23.377	24.796	23.585	24.170
<b>90</b>	20.579	20.184	19.630	22.131	22.391

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Zone	Lumens	%Lamp	%Fixt
0-20	387.80	N.A.	41.70
0-30	588.84	N.A.	63.30
0-40	691.05	N.A.	74.20
0-60	824.75	N.A.	88.60
0-80	904.58	N.A.	97.20
0-90	930.95	N.A.	100.00
10-90	820.06	N.A.	88.10
20-40	303.25	N.A.	32.60
20-50	377.50	N.A.	40.50
40-70	179.03	N.A.	19.20
60-80	79.83	N.A.	8.60
70-80	34.50	N.A.	3.70
80-90	26.38	N.A.	2.80
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	930.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.90
10-20	276.90
20-30	201.04
30-40	102.21
40-50	74.25
50-60	59.45
60-70	45.33
70-80	34.50
80-90	26.38
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

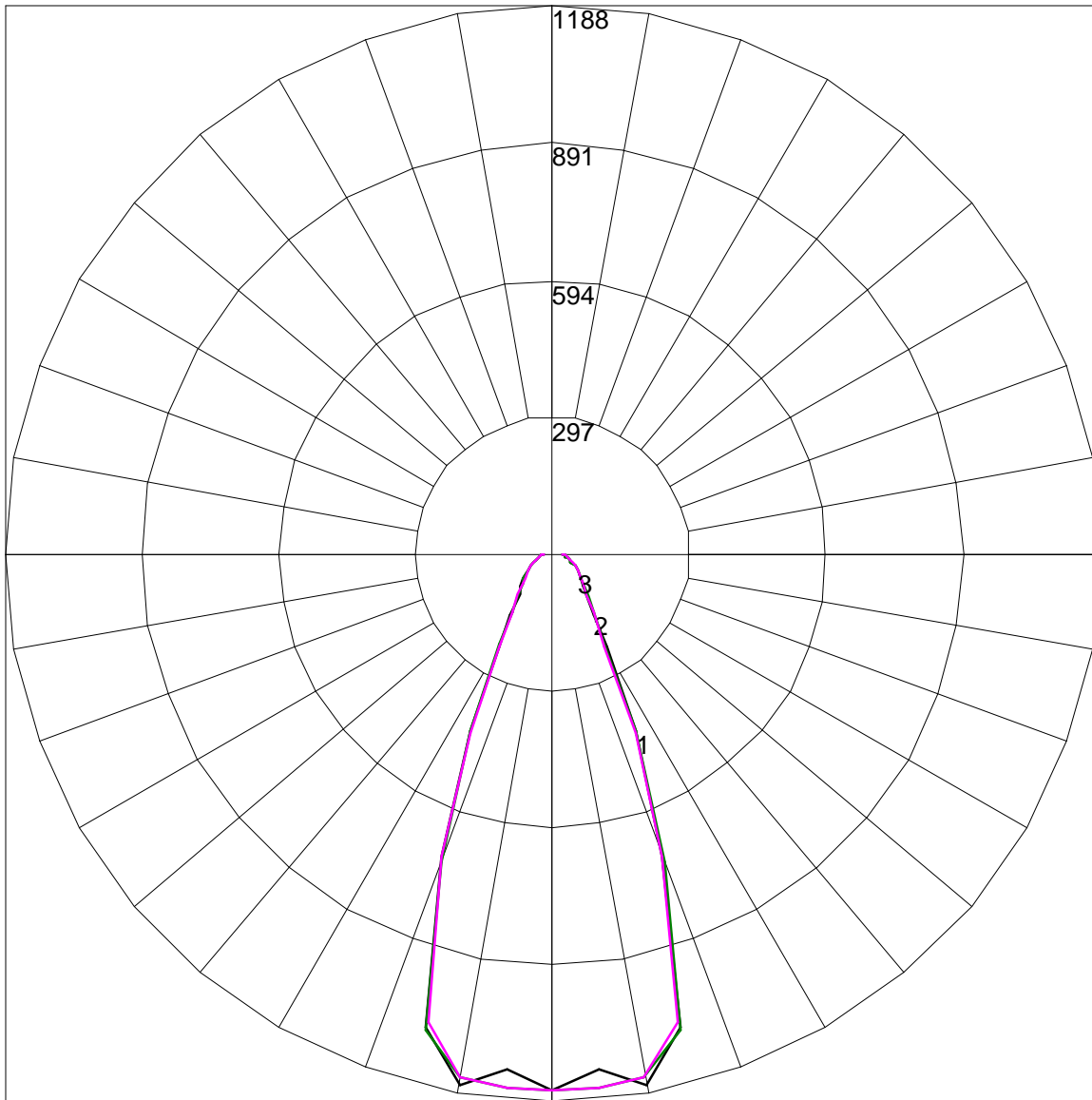
Effective Floor Cavity Reflectance 0.20

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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	88	78	71	66	86	77	71	66	75	70	65	73	68	65	72	67	64	62
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46

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## POLAR GRAPH



Maximum Candela = 1187.54 Located At Horizontal Angle = 67.5, 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)