

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKMDE1-RD4FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST DATE] Thu May 12 2016

[UPDATE] Thu Jun 9 2016

[TEST] SP-00480_14_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-MD-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] Medium 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.54
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	9317	9188	9158
55	7370	7339	7488
65	6102	5871	5911
75	4682	4581	4662
85	3512	3485	3519

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKMDE1-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	2058.919	2058.919	2058.919	2058.919	2058.919
5	1929.184	1941.424	1935.512	1933.070	1950.665
10	1571.482	1578.319	1576.610	1580.033	1586.226
15	1098.623	1094.576	1100.327	1089.818	1099.522
20	659.110	658.425	655.006	658.513	658.523
25	438.790	440.219	444.728	441.066	447.643
30	238.731	237.947	241.968	240.944	239.334
35	168.058	167.274	167.024	167.118	166.417
40	135.860	138.093	139.148	136.909	136.577
45	121.532	121.750	119.854	122.218	119.464
50	107.859	110.695	110.778	109.126	108.550
55	96.684	96.949	96.279	97.884	98.232
60	86.336	85.728	87.229	86.642	86.128
65	78.070	75.842	75.115	75.353	75.624
70	65.312	65.795	65.291	66.278	64.750
75	56.558	55.072	55.342	55.924	56.314
80	46.459	45.924	46.329	45.784	46.594
85	38.630	37.887	38.334	38.817	38.708
90	33.336	33.258	32.988	32.999	33.580

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Zone	Lumens	%Lamp	%Fixt
0-20	476.72	N.A.	41.50
0-30	678.43	N.A.	59.10
0-40	789.23	N.A.	68.80
0-60	971.17	N.A.	84.60
0-80	1105.37	N.A.	96.30
0-90	1147.95	N.A.	100.00
10-90	974.40	N.A.	84.90
20-40	312.51	N.A.	27.20
20-50	407.04	N.A.	35.50
40-70	257.18	N.A.	22.40
60-80	134.19	N.A.	11.70
70-80	58.95	N.A.	5.10
80-90	42.58	N.A.	3.70
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	1147.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.55
10-20	303.17
20-30	201.71
30-40	110.80
40-50	94.53
50-60	87.41
60-70	75.24
70-80	58.95
80-90	42.58
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

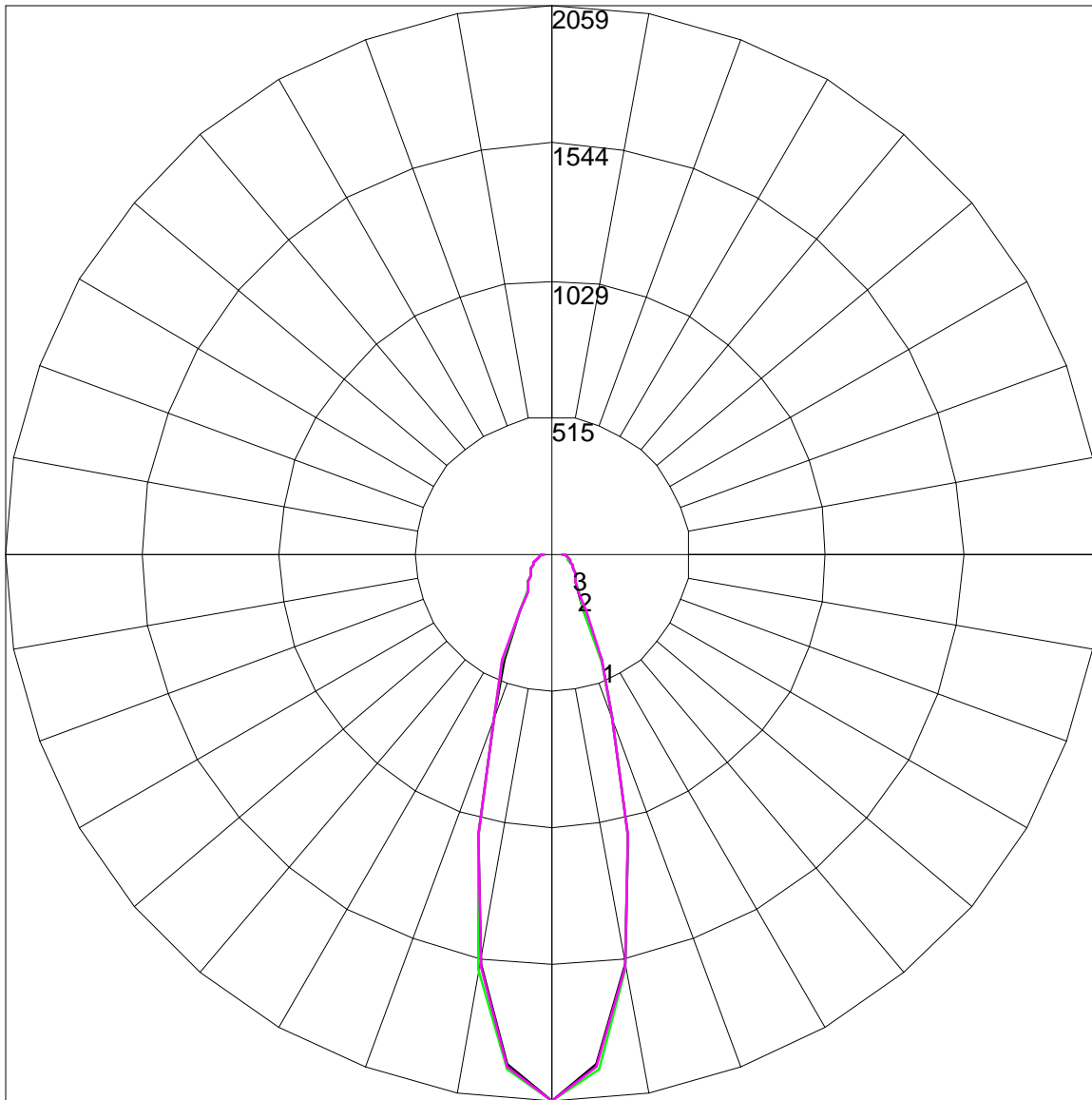
Effective Floor Cavity Reflectance 0.20

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	91	82	75	69	89	80	74	69	78	73	68	76	71	67	74	70	66	65
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53
8	74	63	57	52	73	63	56	52	62	56	52	61	55	52	60	55	51	50
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47
10	68	57	51	47	67	57	51	47	56	50	47	55	50	47	54	50	46	45

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POLAR GRAPH



Maximum Candela = 2058.919 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)