

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_46 ~ SR3DMX-XT20LE1-RDD3X-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00545\_46  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/15/2017  
[UPDATE] 4/26/2017  
[LUMCAT] SR3DMx-XT20L-E1-RDD3x-xxK-WD-MW-SO  
[LUMINAIRE] Nom. 3" Round Downlight, Deep profile, Wide Beam  
[OTHER] Matte White Trim, Solite Lens  
[OTHER] 54 Degree Beam Angle  
[LAMP] N/A, 19mm  
[LAMPCAT] N/A, Min. 83 CRI  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] For New Construction Non-IC Housing: SR3DMO-XT-series  
[OTHER] For New Construction IC Rated Housing: SR3DMI-XT-Series  
[OTHER] For Remodel/Retrofit Housing: SR3DMR-XT-Series  
[OTHER] For RDD3F or RDD3N Downlight Trim  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1846
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.29 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_46 ~ SR3DMX-XT20LE1-RDD3X-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12485	17293	12485
55	10841	11757	10841
65	10516	11014	10516
75	4271	5752	4271
85	3556	6042	3556

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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>	2339.092	2339.092	2339.092	2339.092	2339.092
<b>5</b>	2265.349	2289.498	2309.605	2289.498	2265.349
<b>10</b>	2119.487	2158.748	2191.544	2158.748	2119.487
<b>15</b>	1902.814	1959.735	2008.520	1959.735	1902.814
<b>20</b>	1615.451	1690.522	1748.781	1690.522	1615.451
<b>25</b>	1264.149	1353.514	1427.593	1353.514	1264.149
<b>30</b>	843.896	950.186	1029.789	950.186	843.896
<b>35</b>	416.517	511.406	574.002	511.406	416.517
<b>40</b>	150.874	202.539	242.714	202.539	150.874
<b>45</b>	54.977	65.220	76.145	65.220	54.977
<b>50</b>	44.335	47.308	49.377	47.308	44.335
<b>55</b>	38.722	39.530	41.995	39.530	38.722
<b>60</b>	33.578	36.359	37.372	36.359	33.578
<b>65</b>	27.674	27.900	28.985	27.900	27.674
<b>70</b>	13.232	17.946	19.178	17.946	13.232
<b>75</b>	6.883	8.504	9.270	8.504	6.883
<b>80</b>	3.471	4.469	5.413	4.469	3.471
<b>85</b>	1.930	2.287	3.279	2.287	1.930
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	758.76	N.A.	41.10
0-30	1367.39	N.A.	74.10
0-40	1697.74	N.A.	92.00
0-60	1806.00	N.A.	97.90
0-80	1843.05	N.A.	99.90
0-90	1845.6	N.A.	100.00
10-90	1631.24	N.A.	88.40
20-40	938.98	N.A.	50.90
20-50	1010.78	N.A.	54.80
40-70	135.27	N.A.	7.30
60-80	37.05	N.A.	2.00
70-80	10.04	N.A.	0.50
80-90	2.54	N.A.	0.10
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	1845.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	214.36
10-20	544.41
20-30	608.63
30-40	330.35
40-50	71.80
50-60	36.46
60-70	27.01
70-80	10.04
80-90	2.54
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

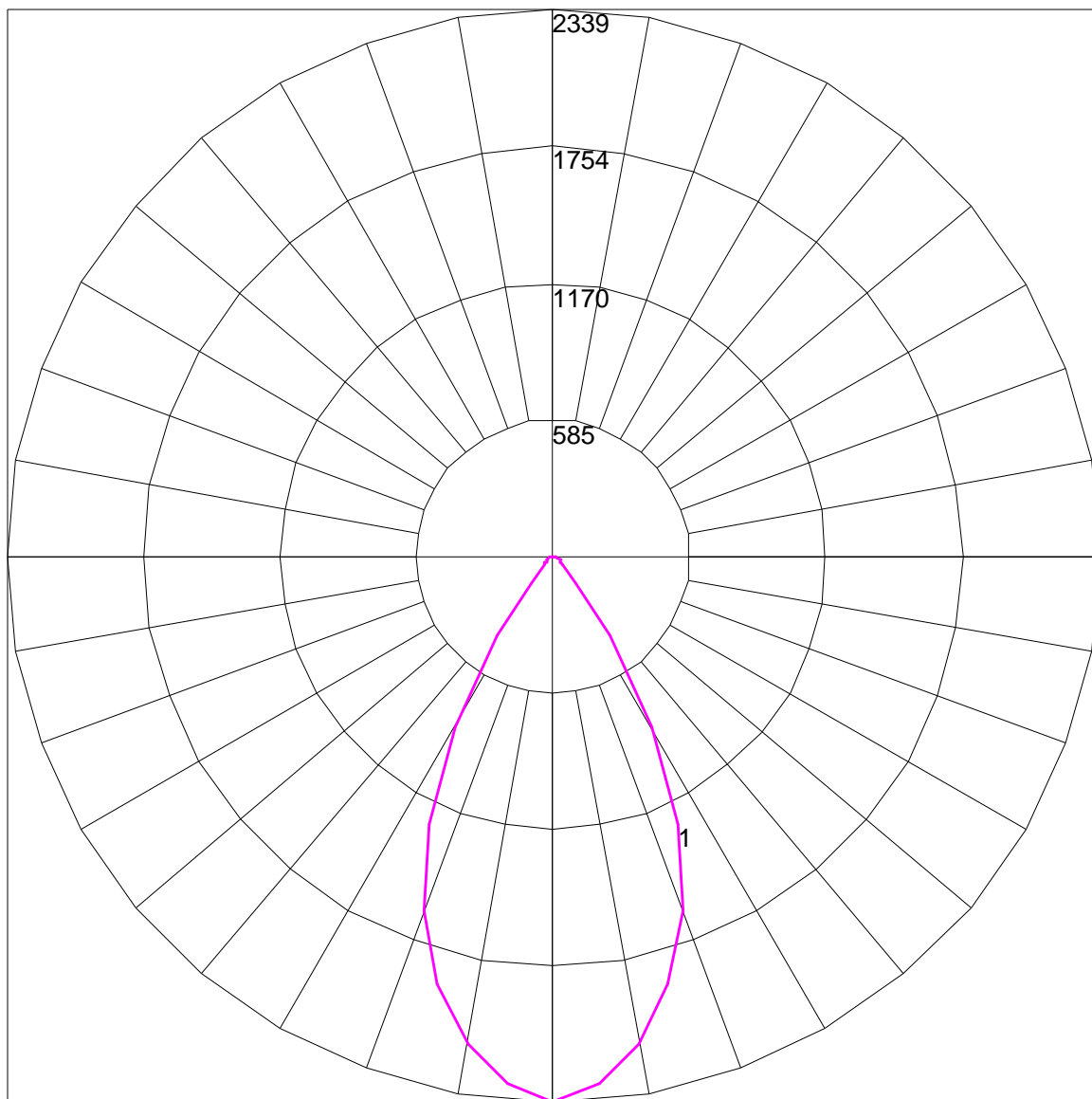
Effective Floor Cavity Reflectance 0.20

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	90	84	80	95	89	83	80	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

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## POLAR GRAPH



Maximum Candela = 2339.092 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)