

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SR12SQLEDOA-47W35KE1-FT1212MWFO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1405211008-001-002
 [TESTLAB] Intertek
 [ISSUE DATE] 5/30/2014
 [MANUFAC] SPECTRUM LIGHTING
 [LUMCAT] SR12SQLEDOA-47W-35K-E1-FT1212-MW-FO
 [LUMINAIRE] 12" SQUARE LENSED LED RECESSED DOWNLIGHT
 [LAMP] N/A, >80 CRI
 [LAMPCAT] N/A
 [OTHER] 120.03 VAC, 409.66 mA, 49.015 W, 0.9968 PF
 [OTHER] OUTPUT MULTIPLIERS FOR OTHER CCT's: 30K x 0.9787, 40K x 1.0426, 50K x 1.0638

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	49
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.85 ft
Luminous Width (90-270)	0.85 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14284	14368	14173
55	13478	13408	13201
65	12348	12144	11992
75	10737	9874	9696
85	7617	6524	5738

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1104.9	1104.9	1104.9	1104.9	1104.9
2.5	1104.5	1104.0	1103.4	1103.2	1102.8
5.0	1101.4	1101.2	1100.3	1100.0	1099.6
7.5	1095.4	1095.0	1094.3	1093.8	1093.5
10.0	1084.8	1084.4	1083.5	1083.1	1082.7
12.5	1070.9	1070.6	1069.8	1069.4	1068.9
15.0	1054.5	1054.0	1052.9	1052.8	1052.2
17.5	1036.8	1036.5	1035.3	1035.0	1034.3
20.0	1017.0	1016.7	1015.3	1015.3	1014.5
22.5	992.0	991.8	990.3	990.3	989.1
25.0	961.1	961.1	958.9	959.3	958.0
27.5	928.1	937.7	925.7	926.3	925.0
30.0	898.2	907.6	895.7	896.1	895.0
32.5	865.8	874.8	866.7	863.4	862.0
35.0	831.2	838.9	833.4	828.7	827.3
37.5	795.0	799.2	797.8	793.2	791.3
40.0	756.8	762.4	760.4	754.6	752.4
42.5	718.6	722.8	724.3	715.3	713.7
45.0	678.6	680.2	682.6	674.3	673.3
47.5	638.4	640.7	639.9	634.8	632.6
50.0	596.7	602.8	602.1	594.5	589.9
52.5	556.9	561.5	556.9	552.8	547.9
55.0	519.4	526.4	516.7	513.3	508.7
57.5	477.8	488.8	475.7	474.3	469.2
60.0	434.5	439.3	432.8	427.7	426.4
62.5	392.8	394.6	392.2	384.3	383.4
65.0	350.6	350.1	344.8	341.4	340.5
67.5	309.3	308.8	296.8	297.4	293.8
70.0	266.8	262.7	253.8	255.2	252.9
72.5	225.5	219.8	211.6	213.6	208.4
75.0	186.7	176.9	171.7	173.0	168.6
77.5	150.1	138.3	134.4	133.6	130.6
80.0	111.3	100.7	100.1	98.0	94.9
82.5	75.7	67.4	67.2	64.8	62.4
85.0	44.6	38.0	38.2	35.3	33.6
87.5	18.4	14.2	13.9	12.3	12.2
90.0	4.8	2.9	2.5	1.1	0.9
92.5	2.6	1.9	0.6	0.0	0.0
95.0	3.5	3.1	1.5	0.0	0.0
97.5	4.1	3.8	2.1	0.0	0.0
100.0	3.7	3.8	1.9	0.0	0.0
102.5	3.3	3.3	1.5	0.0	0.0
105.0	3.0	2.7	1.2	0.0	0.0
107.5	2.5	2.1	0.9	0.0	0.0
110.0	2.4	1.8	0.8	0.0	0.0
112.5	2.7	1.9	0.8	0.0	0.0
115.0	2.9	1.5	0.9	0.0	0.0
117.5	2.6	1.5	0.7	0.0	0.0
120.0	2.3	1.2	0.3	0.0	0.0
122.5	2.0	0.8	0.0	0.0	0.0
125.0	1.5	0.7	0.1	0.0	0.0
127.5	1.0	0.6	0.2	0.0	0.0
130.0	0.9	0.5	0.1	0.0	0.0
132.5	0.6	0.6	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

135.0	0.7	0.4	0.0	0.0	0.0
137.5	0.6	0.4	0.0	0.0	0.0
140.0	0.5	0.3	0.0	0.0	0.0
142.5	0.5	0.4	0.0	0.0	0.0
145.0	0.4	0.4	0.0	0.0	0.0
147.5	0.3	0.2	0.0	0.0	0.0
150.0	0.3	0.2	0.0	0.0	0.0
152.5	0.2	0.3	0.0	0.0	0.0
155.0	0.2	0.1	0.0	0.0	0.0
157.5	0.2	0.1	0.0	0.0	0.0
160.0	0.1	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	401.79	N.A.	13.70
0-30	844.16	N.A.	28.80
0-40	1364.48	N.A.	46.60
0-60	2350.39	N.A.	80.20
0-80	2878.29	N.A.	98.30
0-90	2924.55	N.A.	99.80
10-90	2820.02	N.A.	96.30
20-40	962.69	N.A.	32.90
20-50	1486.39	N.A.	50.70
40-70	1327.66	N.A.	45.30
60-80	527.90	N.A.	18.00
70-80	186.15	N.A.	6.40
80-90	46.26	N.A.	1.60
90-110	3.25	N.A.	0.10
90-120	4.16	N.A.	0.10
90-130	4.53	N.A.	0.20
90-150	4.77	N.A.	0.20
90-180	4.80	N.A.	0.20
110-180	1.54	N.A.	0.10
0-180	2929.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.53
10-20	297.26
20-30	442.37
30-40	520.32
40-50	523.70
50-60	462.21
60-70	341.75
70-80	186.15
80-90	46.26
90-100	1.81
100-110	1.44
110-120	0.91
120-130	0.37
130-140	0.15
140-150	0.08
150-160	0.03
160-170	0.00
170-180	0.00

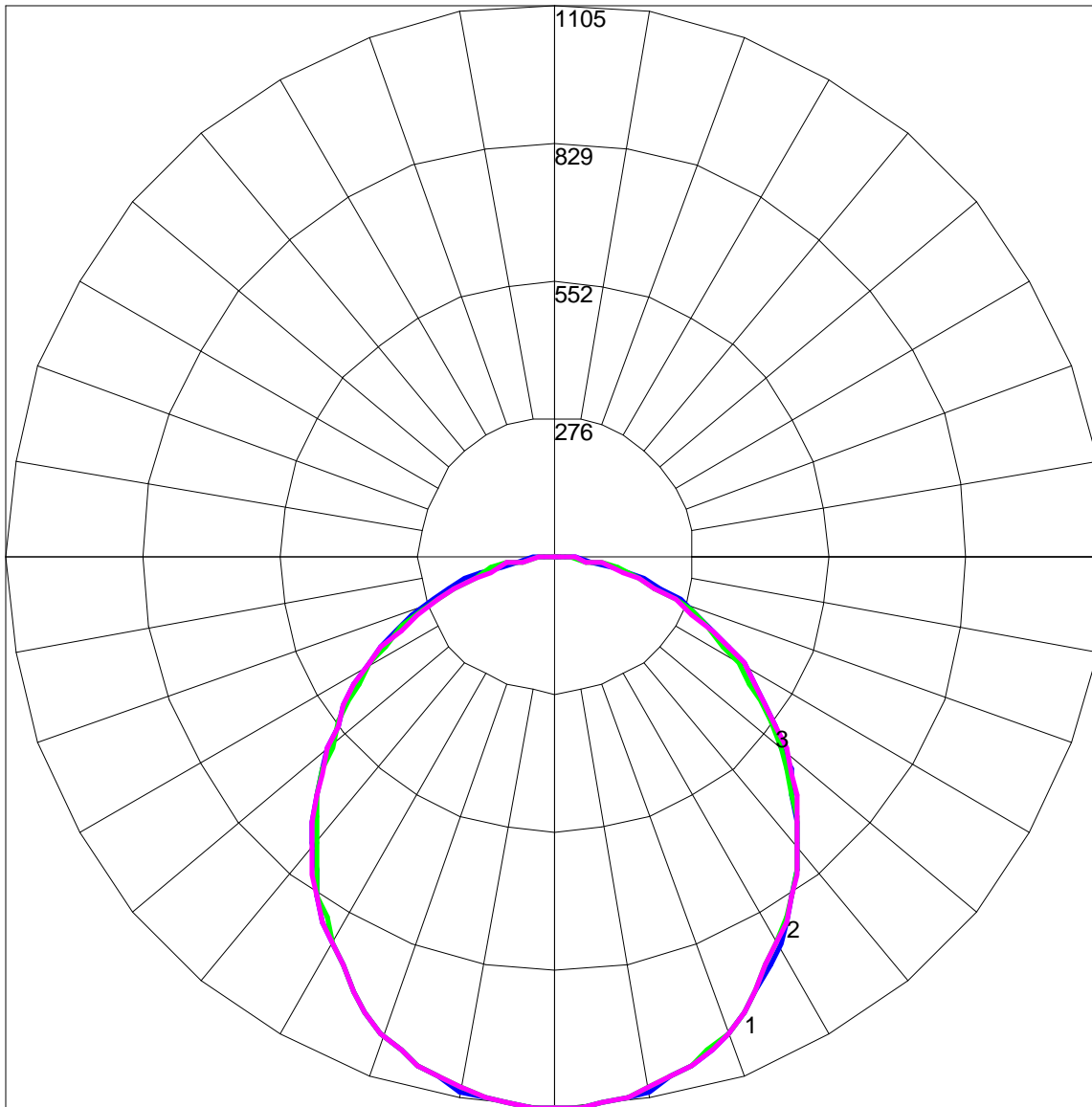
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1104.9 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (45 - 225)