

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGB8SQLEDGV-37W40KE1-AR0806-GW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1309131053-001
 [TESTLAB] Intertek
 [ISSUE DATE] 9/26/2013
 [UPDATE] 4/24/2014
 [MANUFAC] SPECTRUM LIGHTING
 [LUMCAT] SGB8SQLEDGV-37W-40K-E1/AR0806LEDGV-GW
 [LUMINAIRE] LED RECESSED SQUARE APERTURE DOWNLIGHT
 [LAMP] N/A
 [LAMPCAT] N/A
 [OTHER] Output Multiplier for other Color Temperatures: 0.944 for 3500K, 3000K, and 2700K.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	36.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.67 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13999	16448	14158
55	13670	12797	13779
65	11218	11059	11275
75	8562	8636	8691
85	5195	4755	4948

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5	1642.5	1642.3	1641.4	1642.0	1641.0	1642.0	1641.4	1642.3	1642.5	1642.3
5.0	1650.3	1647.9	1645.2	1645.4	1646.6	1645.4	1645.2	1647.9	1650.3	1647.9
7.5	1673.0	1667.2	1656.3	1659.4	1663.5	1659.4	1656.3	1667.2	1673.0	1667.2
10.0	1687.5	1683.9	1674.9	1672.5	1678.4	1672.5	1674.9	1683.9	1687.5	1683.9
12.5	1698.7	1697.4	1699.5	1690.0	1692.1	1690.0	1699.5	1697.4	1698.7	1697.4
15.0	1712.2	1713.5	1731.2	1713.8	1707.3	1713.8	1731.2	1713.5	1712.2	1713.5
17.5	1715.5	1724.8	1758.2	1733.3	1711.8	1733.3	1758.2	1724.8	1715.5	1724.8
20.0	1703.2	1726.2	1771.0	1740.4	1704.8	1740.4	1771.0	1726.2	1703.2	1726.2
22.5	1684.5	1716.7	1772.4	1739.3	1685.6	1739.3	1772.4	1716.7	1684.5	1716.7
25.0	1633.8	1692.3	1758.4	1717.1	1622.5	1717.1	1758.4	1692.3	1633.8	1692.3
27.5	1485.6	1608.1	1730.3	1652.4	1477.2	1652.4	1730.3	1608.1	1485.6	1608.1
30.0	1293.4	1443.0	1693.0	1505.9	1282.7	1505.9	1693.0	1443.0	1293.4	1443.0
32.5	1064.8	1231.7	1611.5	1304.1	1056.9	1304.1	1611.5	1231.7	1064.8	1231.7
35.0	836.4	997.8	1422.9	1075.8	825.6	1075.8	1422.9	997.8	836.4	997.8
37.5	623.6	769.1	1166.2	843.1	618.8	843.1	1166.2	769.1	623.6	769.1
40.0	459.5	568.7	902.5	630.9	469.7	630.9	902.5	568.7	459.5	568.7
42.5	424.5	439.3	671.6	472.5	429.7	472.5	671.6	439.3	424.5	439.3
45.0	413.2	421.3	485.5	422.0	417.9	422.0	485.5	421.3	413.2	421.3
47.5	402.0	405.7	381.3	402.8	406.8	402.8	381.3	405.7	402.0	405.7
50.0	389.2	389.8	354.0	382.4	393.3	382.4	354.0	389.8	389.2	389.8
52.5	363.9	364.5	330.8	357.2	367.8	357.2	330.8	364.5	363.9	364.5
55.0	327.3	330.5	306.4	326.9	329.9	326.9	306.4	330.5	327.3	330.5
57.5	294.0	293.7	280.4	294.0	295.9	294.0	280.4	293.7	294.0	293.7
60.0	261.5	260.7	252.3	260.8	261.7	260.8	252.3	260.7	261.5	260.7
62.5	228.8	228.3	223.0	227.8	230.1	227.8	223.0	228.3	228.8	228.3
65.0	197.9	197.7	195.1	196.6	198.9	196.6	195.1	197.7	197.9	197.7
67.5	168.5	168.6	166.8	167.3	169.5	167.3	166.8	168.6	168.5	168.6
70.0	141.8	141.7	141.0	140.6	142.5	140.6	141.0	141.7	141.8	141.7
72.5	116.6	116.6	116.3	116.3	117.6	116.3	116.3	116.6	116.6	116.6
75.0	92.5	92.9	93.3	93.6	93.9	93.6	93.3	92.9	92.5	92.9
77.5	69.6	71.1	72.1	72.4	71.9	72.4	72.1	71.1	69.6	71.1
80.0	51.0	51.5	52.2	53.2	52.0	53.2	52.2	51.5	51.0	51.5
82.5	34.0	34.0	34.1	35.1	34.2	35.1	34.1	34.0	34.0	34.0
85.0	18.9	17.8	17.3	19.1	18.0	19.1	17.3	17.8	18.9	17.8
87.5	4.9	3.2	2.8	4.3	3.5	4.3	2.8	3.2	4.9	3.2
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5	1641.4	1642.0	1641.0	1642.0	1641.4	1642.3	1642.5
5.0	1645.2	1645.4	1646.6	1645.4	1645.2	1647.9	1650.3
7.5	1656.3	1659.4	1663.5	1659.4	1656.3	1667.2	1673.0
10.0	1674.9	1672.5	1678.4	1672.5	1674.9	1683.9	1687.5
12.5	1699.5	1690.0	1692.1	1690.0	1699.5	1697.4	1698.7
15.0	1731.2	1713.8	1707.3	1713.8	1731.2	1713.5	1712.2
17.5	1758.2	1733.3	1711.8	1733.3	1758.2	1724.8	1715.5
20.0	1771.0	1740.4	1704.8	1740.4	1771.0	1726.2	1703.2
22.5	1772.4	1739.3	1685.6	1739.3	1772.4	1716.7	1684.5
25.0	1758.4	1717.1	1622.5	1717.1	1758.4	1692.3	1633.8
27.5	1730.3	1652.4	1477.2	1652.4	1730.3	1608.1	1485.6
30.0	1693.0	1505.9	1282.7	1505.9	1693.0	1443.0	1293.4

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32.5	1611.5	1304.1	1056.9	1304.1	1611.5	1231.7	1064.8
35.0	1422.9	1075.8	825.6	1075.8	1422.9	997.8	836.4
37.5	1166.2	843.1	618.8	843.1	1166.2	769.1	623.6
40.0	902.5	630.9	469.7	630.9	902.5	568.7	459.5
42.5	671.6	472.5	429.7	472.5	671.6	439.3	424.5
45.0	485.5	422.0	417.9	422.0	485.5	421.3	413.2
47.5	381.3	402.8	406.8	402.8	381.3	405.7	402.0
50.0	354.0	382.4	393.3	382.4	354.0	389.8	389.2
52.5	330.8	357.2	367.8	357.2	330.8	364.5	363.9
55.0	306.4	326.9	329.9	326.9	306.4	330.5	327.3
57.5	280.4	294.0	295.9	294.0	280.4	293.7	294.0
60.0	252.3	260.8	261.7	260.8	252.3	260.7	261.5
62.5	223.0	227.8	230.1	227.8	223.0	228.3	228.8
65.0	195.1	196.6	198.9	196.6	195.1	197.7	197.9
67.5	166.8	167.3	169.5	167.3	166.8	168.6	168.5
70.0	141.0	140.6	142.5	140.6	141.0	141.7	141.8
72.5	116.3	116.3	117.6	116.3	116.3	116.6	116.6
75.0	93.3	93.6	93.9	93.6	93.3	92.9	92.5
77.5	72.1	72.4	71.9	72.4	72.1	71.1	69.6
80.0	52.2	53.2	52.0	53.2	52.2	51.5	51.0
82.5	34.1	35.1	34.2	35.1	34.1	34.0	34.0
85.0	17.3	19.1	18.0	19.1	17.3	17.8	18.9
87.5	2.8	4.3	3.5	4.3	2.8	3.2	4.9
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	644.86	N.A.	21.20
0-30	1411.64	N.A.	46.50
0-40	2075.71	N.A.	68.40
0-60	2718.63	N.A.	89.50
0-80	3014.12	N.A.	99.30
0-90	3036.45	N.A.	100.00
10-90	2878.1	N.A.	94.80
20-40	1430.84	N.A.	47.10
20-50	1786.04	N.A.	58.80
40-70	838.75	N.A.	27.60
60-80	295.49	N.A.	9.70
70-80	99.66	N.A.	3.30
80-90	22.34	N.A.	0.70
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	3036.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.36
10-20	486.51
20-30	766.78
30-40	664.07
40-50	355.20
50-60	287.73
60-70	195.82
70-80	99.66
80-90	22.34
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

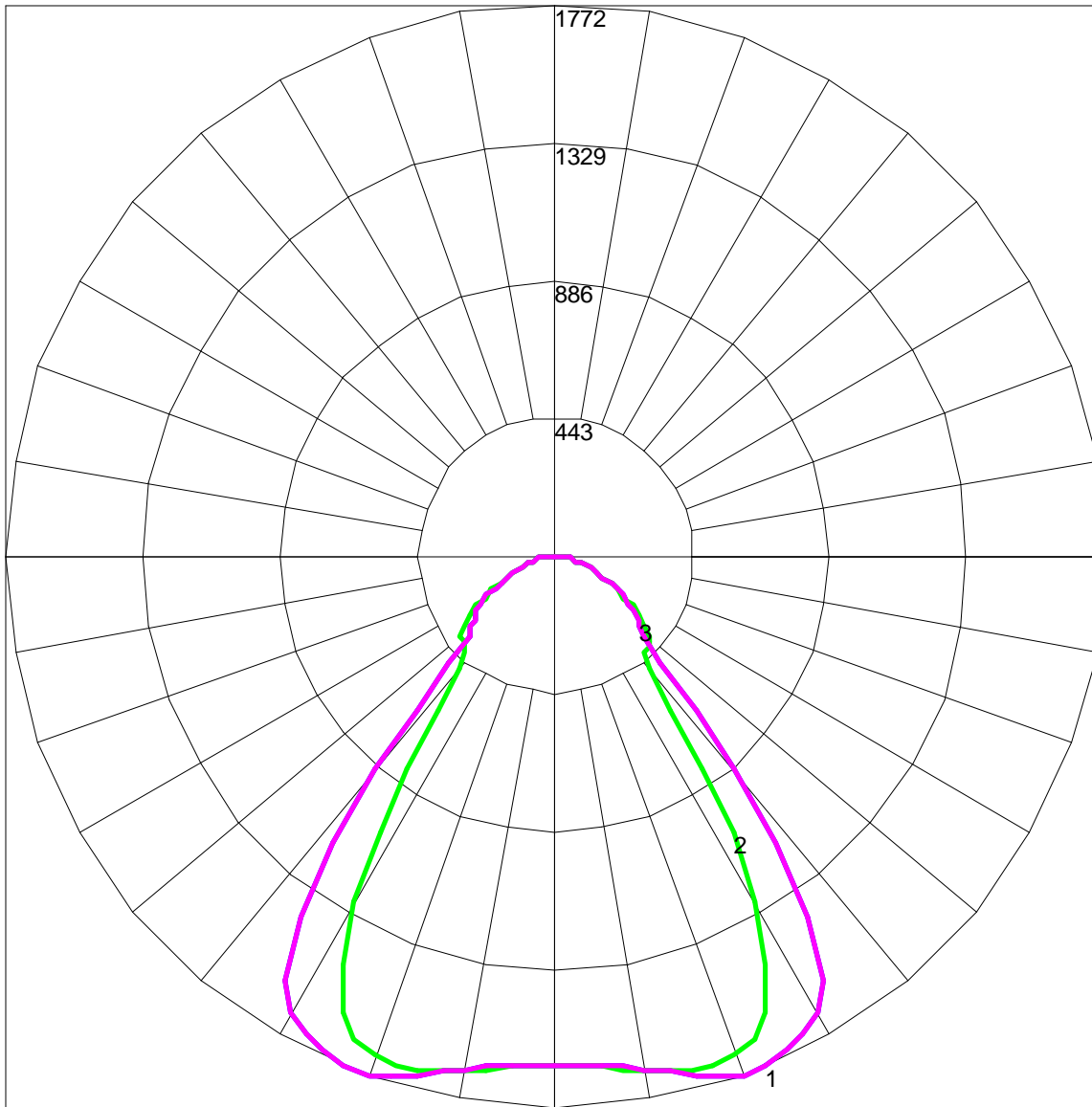
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

POLAR GRAPH



Maximum Candela = 1772.4 Located At Horizontal Angle = 45, Vertical Angle = 22.5

1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)