

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427635

Luminaire Tested: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427635  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

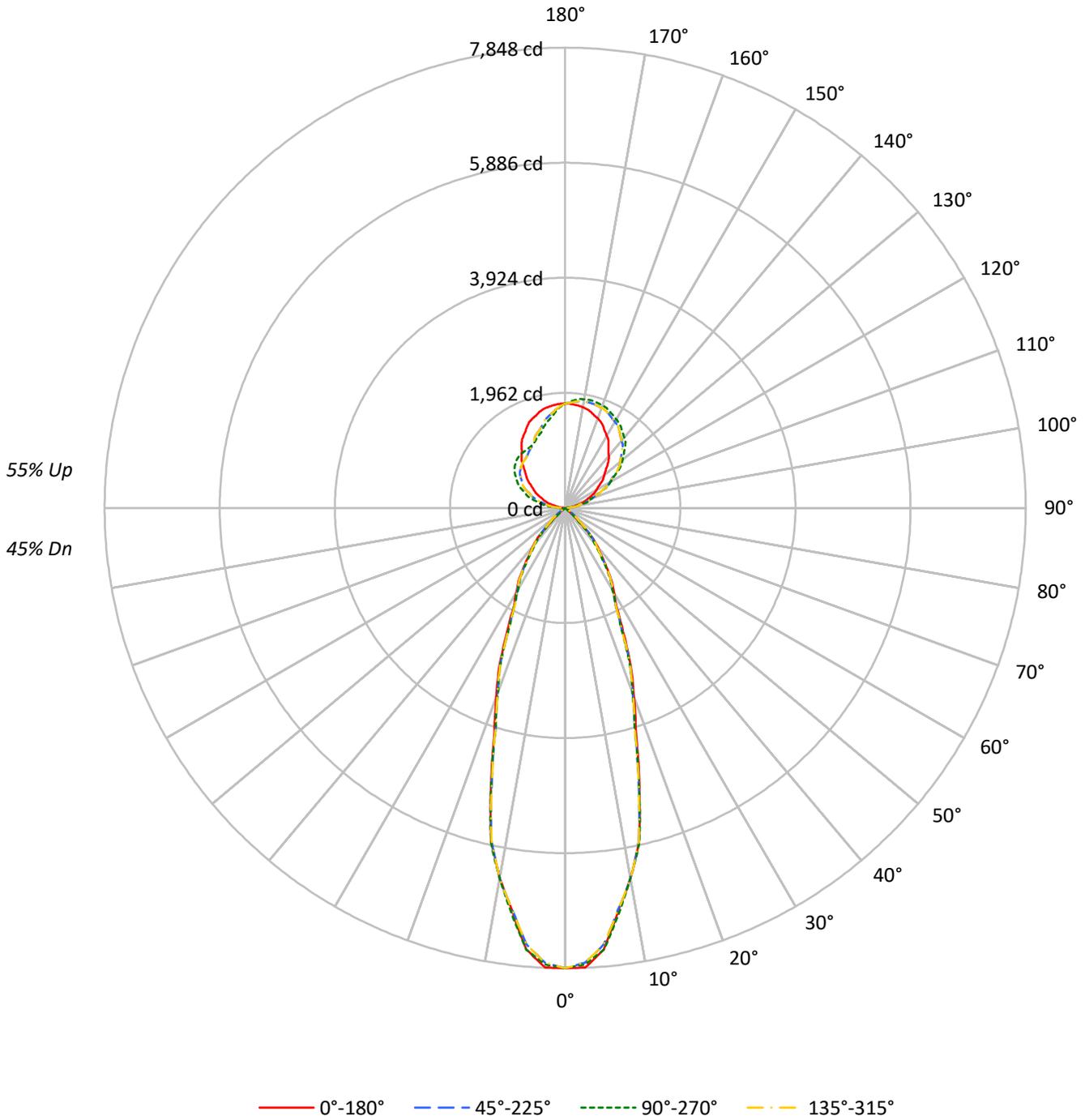
Lumens per Lamp: N/A  
Luminaire Lumens: 9434.9 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45				
1	99	95	92	90	91	88	85	83	74	72	71	61	60	59	49	48	48	42				
2	92	86	81	77	85	80	76	72	68	65	63	57	55	53	46	45	44	40				
3	86	78	73	68	79	73	68	64	62	59	56	53	50	48	44	42	41	37				
4	80	72	65	61	74	67	61	57	58	54	51	49	47	44	41	40	38	35				
5	75	66	59	54	69	61	56	52	53	49	46	46	43	41	39	37	36	33				
6	70	61	54	49	65	57	51	47	50	45	42	43	40	38	37	35	33	31				
7	66	56	49	45	61	53	47	43	46	42	39	41	37	35	35	33	31	29				
8	62	52	46	41	58	49	43	40	44	39	36	38	35	33	33	31	30	27				
9	59	49	42	38	55	46	40	37	41	37	34	36	33	31	32	29	28	26				
10	56	45	39	35	52	43	38	34	39	34	31	34	31	29	30	28	26	25				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	126717	126717	126717	126717
5°	122478	122548	122478	122548
10°	105112	105112	105112	105112
15°	81586	81398	81586	81398
20°	58882	57619	58882	57619
25°	41750	40163	41750	40163
30°	31062	29982	31062	29982
35°	24170	23055	24170	23055
40°	17886	16336	17886	16336
45°	9140	7364	9140	7364
50°	1989	1457	1989	1457
55°	557	439	557	439
60°	90	45	90	45
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 11149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.7	7.2
10°-20°	1338.0	14.2
20°-30°	1079.3	11.4
30°-40°	749.8	7.9
40°-50°	346.4	3.7
50°-60°	48.5	0.5
60°-70°	1.7	0.0
70°-80°	0.0	0.0
80°-90°	9.4	0.1
90°-100°	141.3	1.5
100°-110°	412.2	4.4
110°-120°	672.6	7.1
120°-130°	853.5	9.0
130°-140°	913.3	9.7
140°-150°	852.8	9.0
150°-160°	701.7	7.4
160°-170°	470.6	5.0
170°-180°	167.1	1.8
0°-30°	3096.1	32.8
0°-40°	3845.9	40.8
0°-60°	4240.7	44.9
0°-90°	4251.8	45.1
90°-120°	1226.1	13.0
90°-150°	3845.7	40.8
90°-180°	5185.0	55.0
0°-180°	9434.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7848	7848	7848	7848	7848	
5°	7557	7561	7557	7561	7557	679
15°	4881	4870	4881	4870	4881	1344
25°	2344	2254	2344	2254	2344	1097
35°	1226	1170	1226	1170	1226	767
45°	400	322	400	322	400	323
55°	20	16	20	16	20	25
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	5	40	5	77	5	4
95°	56	41	56	242	56	67
105°	262	420	262	578	262	279
115°	502	696	502	857	502	495
125°	743	1103	743	1051	743	664
135°	1010	1444	1010	1164	1010	780
145°	1290	1665	1290	1189	1290	807
155°	1532	1808	1532	1234	1532	704
165°	1693	1885	1693	1421	1693	477
175°	1770	1846	1770	1666	1770	168
180°	1776	1776	1776	1776	1776	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4
2.5°	7843.9	7830.8	7817.7	7791.8	7761.6	7760.4	7788.1	7806.7	7798.1	7789.6	7798.1
5°	7557.0	7538.8	7520.6	7498.6	7475.3	7484.1	7525.0	7556.2	7558.8	7561.3	7558.8
7.5°	6924.0	6929.9	6935.8	6920.7	6898.5	6910.1	6955.4	6988.1	6983.2	6978.3	6983.2
10°	6411.4	6415.8	6420.2	6419.4	6416.9	6423.2	6438.3	6445.3	6428.4	6411.4	6428.4
12.5°	5817.3	5834.8	5852.3	5832.2	5799.5	5794.4	5817.1	5835.8	5843.0	5850.2	5843.0
15°	4881.0	4909.3	4937.6	4897.5	4834.7	4818.3	4848.5	4871.0	4870.3	4869.7	4870.3
17.5°	4003.0	4000.1	3997.2	3972.4	3940.4	3927.2	3932.8	3936.6	3934.7	3932.8	3934.7
20°	3427.0	3422.6	3418.2	3396.9	3369.8	3354.1	3349.7	3347.2	3350.4	3353.5	3350.4
22.5°	2933.7	2926.3	2918.9	2909.9	2900.5	2890.3	2879.4	2872.2	2876.4	2880.5	2876.4
25°	2343.6	2319.7	2295.9	2276.7	2259.1	2257.8	2272.9	2280.9	2267.7	2254.5	2267.7
27.5°	1881.1	1880.7	1880.4	1869.1	1854.1	1847.4	1849.1	1850.9	1853.4	1856.0	1853.4
30°	1666.1	1661.7	1657.3	1645.4	1630.9	1624.0	1624.7	1623.2	1615.7	1608.2	1615.7
32.5°	1474.9	1478.1	1481.2	1468.5	1450.5	1439.8	1436.4	1432.0	1424.5	1416.9	1424.5
35°	1226.3	1226.3	1226.3	1215.9	1202.1	1190.4	1181.0	1173.5	1171.6	1169.7	1171.6
37.5°	995.7	994.6	993.5	985.8	976.0	964.5	951.1	939.9	935.0	930.1	935.0
40°	848.6	845.5	842.3	836.8	830.6	819.2	802.9	788.9	782.0	775.1	782.0
42.5°	681.2	689.6	698.0	695.4	689.1	677.8	661.5	646.6	636.2	625.7	636.2
45°	400.3	435.5	470.7	483.2	488.3	481.4	462.5	434.4	378.4	322.5	378.4
47.5°	172.0	210.7	249.4	281.9	312.4	302.7	253.1	204.2	157.7	111.2	157.7
50°	79.2	109.4	139.6	180.1	224.1	215.0	152.8	100.7	79.4	58.0	79.4
52.5°	46.4	61.5	76.6	114.5	160.0	155.9	102.2	59.1	47.8	36.5	47.8
55°	19.8	24.8	29.9	50.4	76.2	75.0	46.7	24.4	20.0	15.6	20.0
57.5°	7.4	10.1	12.9	20.3	29.2	28.6	18.6	10.5	8.2	5.9	8.2
60°	2.8	4.1	5.3	9.0	13.4	13.0	8.0	3.9	2.7	1.4	2.7
62.5°	0.6	1.3	2.1	4.1	6.4	6.4	3.9	1.8	1.0	0.3	1.0
65°	0.0	0.0	0.0	0.5	1.1	1.1	0.5	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	2.5	4.3	5.7	6.8	7.2	7.2	7.5	7.9	7.9	7.9
90°	5.4	12.6	21.5	28.7	34.1	35.9	35.9	37.7	39.5	39.5	39.5
92.5°	19.7	31.2	31.6	31.6	38.4	41.6	44.5	44.8	46.6	46.6	46.6
95°	55.6	61.0	91.5	89.7	61.0	48.4	41.3	41.3	41.3	41.3	41.3
97.5°	106.2	114.1	119.1	159.6	168.6	162.9	132.7	111.6	99.7	94.4	99.7
100°	150.7	154.3	165.0	166.8	211.7	254.7	233.2	206.3	197.3	191.9	197.3
102.5°	195.2	197.3	213.8	221.4	231.8	256.2	330.8	322.5	316.4	315.3	316.4
105°	261.9	263.7	294.2	308.5	315.7	315.7	313.9	349.8	407.2	419.7	407.2
107.5°	333.3	341.5	377.4	415.8	424.0	426.2	416.9	411.5	409.3	410.8	409.3
110°	382.1	394.6	437.7	486.1	498.7	502.3	498.7	493.3	489.7	489.7	489.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	429.4	447.7	496.5	552.1	573.3	584.1	576.2	572.2	568.6	571.5	568.6
115°	502.3	529.2	593.7	651.1	694.2	699.6	697.8	697.8	696.0	696.0	696.0
117.5°	569.7	612.8	685.2	752.0	801.8	816.2	823.3	821.2	819.0	822.6	819.0
120°	617.1	667.3	749.8	825.1	873.6	895.1	902.3	898.7	902.3	898.7	902.3
122.5°	667.3	729.0	810.1	888.3	945.3	969.7	978.3	979.0	979.8	977.6	979.8
125°	742.6	818.0	913.0	993.8	1052.9	1081.6	1088.8	1090.6	1094.2	1103.2	1094.2
127.5°	818.7	904.1	1008.5	1086.3	1146.9	1181.7	1192.9	1196.8	1204.3	1208.3	1204.3
130°	871.8	968.6	1074.5	1148.0	1207.2	1244.9	1264.6	1270.0	1279.0	1277.2	1279.0
132.5°	927.7	1028.9	1136.2	1212.6	1267.5	1308.0	1324.9	1340.3	1343.5	1346.1	1343.5
135°	1009.9	1119.3	1226.9	1302.3	1354.3	1393.8	1415.3	1429.6	1438.6	1444.0	1438.6
137.5°	1096.4	1211.9	1315.2	1382.3	1434.7	1468.7	1493.1	1508.2	1517.5	1521.8	1517.5
140°	1155.2	1266.4	1366.9	1436.8	1483.5	1517.5	1539.1	1557.0	1567.8	1567.8	1567.8
142.5°	1211.2	1320.9	1418.5	1488.5	1529.4	1560.6	1583.5	1597.2	1609.4	1609.4	1609.4
145°	1289.7	1399.1	1488.8	1558.8	1592.9	1621.6	1646.7	1657.5	1664.6	1664.6	1664.6
147.5°	1371.9	1468.7	1550.5	1617.6	1646.3	1680.1	1699.8	1708.4	1717.4	1713.4	1717.4
150°	1420.7	1510.4	1589.3	1652.1	1680.8	1713.1	1732.8	1740.0	1748.9	1743.6	1748.9
152.5°	1468.0	1553.4	1625.2	1683.6	1708.0	1740.3	1762.9	1770.1	1776.2	1772.3	1776.2
155°	1531.9	1607.2	1673.6	1727.4	1748.9	1779.4	1801.0	1809.9	1817.1	1808.1	1817.1
157.5°	1588.9	1653.9	1711.6	1761.1	1784.1	1810.3	1830.4	1841.5	1848.7	1844.7	1848.7
160°	1623.4	1682.6	1734.6	1781.2	1802.7	1826.1	1847.6	1860.1	1867.3	1861.9	1867.3
162.5°	1652.1	1705.5	1754.7	1797.0	1815.7	1836.1	1861.9	1873.1	1880.2	1873.4	1880.2
165°	1693.3	1736.4	1779.4	1815.3	1831.4	1847.6	1874.5	1887.1	1892.4	1885.3	1892.4
167.5°	1724.5	1757.5	1792.3	1823.2	1835.0	1850.8	1877.7	1888.1	1894.9	1886.0	1894.9
170°	1741.8	1770.5	1801.0	1826.1	1835.0	1849.4	1876.3	1885.3	1890.6	1881.7	1890.6
172.5°	1756.1	1777.6	1802.4	1824.6	1829.3	1840.8	1866.2	1875.2	1879.2	1871.6	1879.2
175°	1770.5	1783.0	1801.0	1815.3	1813.5	1820.7	1842.2	1849.4	1856.6	1845.8	1856.6
177.5°	1777.3	1783.0	1788.8	1797.4	1791.6	1791.6	1807.4	1811.7	1813.2	1807.4	1813.2
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4
2.5°	7806.7	7788.1	7760.4	7761.6	7791.8	7817.7	7830.8	7843.9	7830.8	7817.7	7791.8
5°	7556.2	7525.0	7484.1	7475.3	7498.6	7520.6	7538.8	7557.0	7538.8	7520.6	7498.6
7.5°	6988.1	6955.4	6910.1	6898.5	6920.7	6935.8	6929.9	6924.0	6929.9	6935.8	6920.7
10°	6445.3	6438.3	6423.2	6416.9	6419.4	6420.2	6415.8	6411.4	6415.8	6420.2	6419.4
12.5°	5835.8	5817.1	5794.4	5799.5	5832.2	5852.3	5834.8	5817.3	5834.8	5852.3	5832.2
15°	4871.0	4848.5	4818.3	4834.7	4897.5	4937.6	4909.3	4881.0	4909.3	4937.6	4897.5
17.5°	3936.6	3932.8	3927.2	3940.4	3972.4	3997.2	4000.1	4003.0	4000.1	3997.2	3972.4
20°	3347.2	3349.7	3354.1	3369.8	3396.9	3418.2	3422.6	3427.0	3422.6	3418.2	3396.9
22.5°	2872.2	2879.4	2890.3	2900.5	2909.9	2918.9	2926.3	2933.7	2926.3	2918.9	2909.9
25°	2280.9	2272.9	2257.8	2259.1	2276.7	2295.9	2319.7	2343.6	2319.7	2295.9	2276.7
27.5°	1850.9	1849.1	1847.4	1854.1	1869.1	1880.4	1880.7	1881.1	1880.7	1880.4	1869.1
30°	1623.2	1624.7	1624.0	1630.9	1645.4	1657.3	1661.7	1666.1	1661.7	1657.3	1645.4
32.5°	1432.0	1436.4	1439.8	1450.5	1468.5	1481.2	1478.1	1474.9	1478.1	1481.2	1468.5
35°	1173.5	1181.0	1190.4	1202.1	1215.9	1226.3	1226.3	1226.3	1226.3	1226.3	1215.9
37.5°	939.9	951.1	964.5	976.0	985.8	993.5	994.6	995.7	994.6	993.5	985.8
40°	788.9	802.9	819.2	830.6	836.8	842.3	845.5	848.6	845.5	842.3	836.8
42.5°	646.6	661.5	677.8	689.1	695.4	698.0	689.6	681.2	689.6	698.0	695.4
45°	434.4	462.5	481.4	488.3	483.2	470.7	435.5	400.3	435.5	470.7	483.2
47.5°	204.2	253.1	302.7	312.4	281.9	249.4	210.7	172.0	210.7	249.4	281.9
50°	100.7	152.8	215.0	224.1	180.1	139.6	109.4	79.2	109.4	139.6	180.1
52.5°	59.1	102.2	155.9	160.0	114.5	76.6	61.5	46.4	61.5	76.6	114.5
55°	24.4	46.7	75.0	76.2	50.4	29.9	24.8	19.8	24.8	29.9	50.4
57.5°	10.5	18.6	28.6	29.2	20.3	12.9	10.1	7.4	10.1	12.9	20.3
60°	3.9	8.0	13.0	13.4	9.0	5.3	4.1	2.8	4.1	5.3	9.0
62.5°	1.8	3.9	6.4	6.4	4.1	2.1	1.3	0.6	1.3	2.1	4.1
65°	0.0	0.5	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	7.2	7.2	6.8	5.7	4.3	2.5	1.1	2.5	3.9	6.5
90°	37.7	35.9	35.9	34.1	28.7	21.5	12.6	5.4	12.6	19.7	32.3
92.5°	44.8	44.5	41.6	38.4	31.6	31.6	31.2	19.7	34.1	48.4	69.6
95°	41.3	41.3	48.4	61.0	89.7	91.5	61.0	55.6	78.9	111.2	139.9
97.5°	111.6	132.7	162.9	168.6	159.6	119.1	114.1	106.2	144.6	176.5	222.8
100°	206.3	233.2	254.7	211.7	166.8	165.0	154.3	150.7	191.9	222.4	267.3
102.5°	322.5	330.8	256.2	231.8	221.4	213.8	197.3	195.2	236.4	278.4	316.1
105°	349.8	313.9	315.7	315.7	308.5	294.2	263.7	261.9	308.5	357.0	403.6
107.5°	411.5	416.9	426.2	424.0	415.8	377.4	341.5	333.3	375.3	433.4	484.7
110°	493.3	498.7	502.3	498.7	486.1	437.7	394.6	382.1	419.7	480.7	536.3



TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	572.2	576.2	584.1	573.3	552.1	496.5	447.7	429.4	467.1	529.5	586.6
115°	697.8	697.8	699.6	694.2	651.1	593.7	529.2	502.3	534.5	591.9	654.7
117.5°	821.2	823.3	816.2	801.8	752.0	685.2	612.8	569.7	595.2	655.8	720.4
120°	898.7	902.3	895.1	873.6	825.1	749.8	667.3	617.1	636.8	696.0	760.6
122.5°	979.0	978.3	969.7	945.3	888.3	810.1	729.0	667.3	675.5	730.4	793.6
125°	1090.6	1088.8	1081.6	1052.9	993.8	913.0	818.0	742.6	731.9	778.5	843.1
127.5°	1196.8	1192.9	1181.7	1146.9	1086.3	1008.5	904.1	818.7	794.6	824.1	883.3
130°	1270.0	1264.6	1244.9	1207.2	1148.0	1074.5	968.6	871.8	837.7	855.6	907.7
132.5°	1340.3	1324.9	1308.0	1267.5	1212.6	1136.2	1028.9	927.7	880.7	888.6	929.2
135°	1429.6	1415.3	1393.8	1354.3	1302.3	1226.9	1119.3	1009.9	945.3	938.1	961.5
137.5°	1508.2	1493.1	1468.7	1434.7	1382.3	1315.2	1211.9	1096.4	1014.9	990.9	999.9
140°	1557.0	1539.1	1517.5	1483.5	1436.8	1366.9	1266.4	1155.2	1063.7	1029.6	1024.2
142.5°	1597.2	1583.5	1560.6	1529.4	1488.5	1418.5	1320.9	1211.2	1113.9	1069.8	1057.3
145°	1657.5	1646.7	1621.6	1592.9	1558.8	1488.8	1399.1	1289.7	1192.9	1135.5	1108.6
147.5°	1708.4	1699.8	1680.1	1646.3	1617.6	1550.5	1468.7	1371.9	1272.5	1201.5	1166.7
150°	1740.0	1732.8	1713.1	1680.8	1652.1	1589.3	1510.4	1420.7	1325.6	1250.3	1205.4
152.5°	1770.1	1762.9	1740.3	1708.0	1683.6	1625.2	1553.4	1468.0	1371.5	1296.2	1249.9
155°	1809.9	1801.0	1779.4	1748.9	1727.4	1673.6	1607.2	1531.9	1449.4	1370.4	1318.4
157.5°	1841.5	1830.4	1810.3	1784.1	1761.1	1711.6	1653.9	1588.9	1516.8	1441.5	1388.4
160°	1860.1	1847.6	1826.1	1802.7	1781.2	1734.6	1682.6	1623.4	1557.0	1488.8	1431.4
162.5°	1873.1	1861.9	1836.1	1815.7	1797.0	1754.7	1705.5	1652.1	1592.9	1533.3	1480.2
165°	1887.1	1874.5	1847.6	1831.4	1815.3	1779.4	1736.4	1693.3	1643.1	1594.7	1551.6
167.5°	1888.1	1877.7	1850.8	1835.0	1823.2	1792.3	1757.5	1724.5	1685.4	1647.4	1611.5
170°	1885.3	1876.3	1849.4	1835.0	1826.1	1801.0	1770.5	1741.8	1711.3	1679.0	1650.3
172.5°	1875.2	1866.2	1840.8	1829.3	1824.6	1802.4	1777.6	1756.1	1729.9	1706.2	1683.3
175°	1849.4	1842.2	1820.7	1813.5	1815.3	1801.0	1783.0	1770.5	1754.3	1740.0	1727.4
177.5°	1811.7	1807.4	1791.6	1791.6	1797.4	1788.8	1783.0	1777.3	1770.1	1765.8	1761.5
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4	7848.4
2.5°	7761.6	7760.4	7788.1	7806.7	7798.1	7789.6	7798.1	7806.7	7788.1	7760.4	7761.6
5°	7475.3	7484.1	7525.0	7556.2	7558.8	7561.3	7558.8	7556.2	7525.0	7484.1	7475.3
7.5°	6898.5	6910.1	6955.4	6988.1	6983.2	6978.3	6983.2	6988.1	6955.4	6910.1	6898.5
10°	6416.9	6423.2	6438.3	6445.3	6428.4	6411.4	6428.4	6445.3	6438.3	6423.2	6416.9
12.5°	5799.5	5794.4	5817.1	5835.8	5843.0	5850.2	5843.0	5835.8	5817.1	5794.4	5799.5
15°	4834.7	4818.3	4848.5	4871.0	4870.3	4869.7	4870.3	4871.0	4848.5	4818.3	4834.7
17.5°	3940.4	3927.2	3932.8	3936.6	3934.7	3932.8	3934.7	3936.6	3932.8	3927.2	3940.4
20°	3369.8	3354.1	3349.7	3347.2	3350.4	3353.5	3350.4	3347.2	3349.7	3354.1	3369.8
22.5°	2900.5	2890.3	2879.4	2872.2	2876.4	2880.5	2876.4	2872.2	2879.4	2890.3	2900.5
25°	2259.1	2257.8	2272.9	2280.9	2267.7	2254.5	2267.7	2280.9	2272.9	2257.8	2259.1
27.5°	1854.1	1847.4	1849.1	1850.9	1853.4	1856.0	1853.4	1850.9	1849.1	1847.4	1854.1
30°	1630.9	1624.0	1624.7	1623.2	1615.7	1608.2	1615.7	1623.2	1624.7	1624.0	1630.9
32.5°	1450.5	1439.8	1436.4	1432.0	1424.5	1416.9	1424.5	1432.0	1436.4	1439.8	1450.5
35°	1202.1	1190.4	1181.0	1173.5	1171.6	1169.7	1171.6	1173.5	1181.0	1190.4	1202.1
37.5°	976.0	964.5	951.1	939.9	935.0	930.1	935.0	939.9	951.1	964.5	976.0
40°	830.6	819.2	802.9	788.9	782.0	775.1	782.0	788.9	802.9	819.2	830.6
42.5°	689.1	677.8	661.5	646.6	636.2	625.7	636.2	646.6	661.5	677.8	689.1
45°	488.3	481.4	462.5	434.4	378.4	322.5	378.4	434.4	462.5	481.4	488.3
47.5°	312.4	302.7	253.1	204.2	157.7	111.2	157.7	204.2	253.1	302.7	312.4
50°	224.1	215.0	152.8	100.7	79.4	58.0	79.4	100.7	152.8	215.0	224.1
52.5°	160.0	155.9	102.2	59.1	47.8	36.5	47.8	59.1	102.2	155.9	160.0
55°	76.2	75.0	46.7	24.4	20.0	15.6	20.0	24.4	46.7	75.0	76.2
57.5°	29.2	28.6	18.6	10.5	8.2	5.9	8.2	10.5	18.6	28.6	29.2
60°	13.4	13.0	8.0	3.9	2.7	1.4	2.7	3.9	8.0	13.0	13.4
62.5°	6.4	6.4	3.9	1.8	1.0	0.3	1.0	1.8	3.9	6.4	6.4
65°	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	10.8	13.3	14.7	16.1	15.4	16.1	14.7	13.3	10.8	8.3
90°	41.3	53.8	66.4	73.5	80.7	77.1	80.7	73.5	66.4	53.8	41.3
92.5°	82.9	104.0	119.5	132.4	138.1	137.4	138.1	132.4	119.5	104.0	82.9
95°	166.8	191.9	217.0	235.0	245.7	242.2	245.7	235.0	217.0	191.9	166.8
97.5°	257.2	291.0	318.9	335.8	346.6	353.7	346.6	335.8	318.9	291.0	257.2
100°	317.5	349.8	382.1	401.8	419.7	426.9	419.7	401.8	382.1	349.8	317.5
102.5°	366.3	408.6	443.8	464.9	480.0	487.2	480.0	464.9	443.8	408.6	366.3
105°	446.7	491.5	529.2	556.1	572.2	577.6	572.2	556.1	529.2	491.5	446.7
107.5°	527.0	573.3	608.1	637.9	657.6	669.1	657.6	608.1	573.3	527.0	527.0
110°	590.2	627.8	665.5	692.4	712.1	719.3	712.1	692.4	665.5	627.8	590.2



TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	643.2	685.2	722.9	749.8	772.4	782.4	772.4	749.8	722.9	685.2	643.2
115°	717.5	773.1	807.2	832.3	848.5	857.4	848.5	832.3	807.2	773.1	717.5
117.5°	779.2	837.3	874.6	894.0	901.6	908.0	901.6	894.0	874.6	837.3	779.2
120°	818.0	871.8	914.8	939.9	948.9	952.5	948.9	939.9	914.8	871.8	818.0
122.5°	853.8	904.8	946.4	977.3	992.0	995.5	992.0	977.3	946.4	904.8	853.8
125°	904.1	952.5	995.5	1026.0	1042.2	1051.2	1042.2	1026.0	995.5	952.5	904.1
127.5°	947.8	1000.2	1039.7	1067.3	1083.1	1090.3	1083.1	1067.3	1039.7	1000.2	947.8
130°	972.2	1026.0	1065.5	1096.0	1110.3	1117.5	1110.3	1096.0	1065.5	1026.0	972.2
132.5°	990.9	1047.6	1088.5	1116.1	1131.9	1139.0	1131.9	1116.1	1088.5	1047.6	990.9
135°	1013.5	1072.7	1115.7	1142.6	1157.0	1164.2	1157.0	1142.6	1115.7	1072.7	1013.5
137.5°	1033.2	1087.0	1131.9	1160.2	1173.1	1177.8	1173.1	1160.2	1131.9	1087.0	1033.2
140°	1047.6	1094.2	1139.0	1166.0	1180.3	1182.1	1180.3	1166.0	1139.0	1094.2	1047.6
142.5°	1066.2	1102.8	1141.9	1168.8	1183.2	1186.4	1183.2	1168.8	1141.9	1102.8	1066.2
145°	1099.6	1121.1	1148.0	1173.1	1185.7	1189.3	1185.7	1173.1	1148.0	1121.1	1099.6
147.5°	1141.6	1148.4	1162.4	1178.9	1191.1	1193.6	1191.1	1178.9	1162.4	1148.4	1141.6
150°	1173.1	1171.3	1176.7	1187.5	1198.2	1196.5	1198.2	1187.5	1176.7	1171.3	1173.1
152.5°	1209.0	1198.6	1198.2	1203.3	1208.3	1207.9	1208.3	1203.3	1198.2	1198.6	1209.0
155°	1270.0	1250.3	1239.5	1235.9	1235.9	1234.1	1235.9	1235.9	1239.5	1250.3	1270.0
157.5°	1337.1	1309.5	1293.3	1284.7	1282.2	1278.2	1282.2	1284.7	1293.3	1309.5	1337.1
160°	1383.0	1352.5	1336.4	1322.0	1316.6	1311.3	1316.6	1322.0	1336.4	1352.5	1383.0
162.5°	1426.1	1397.0	1379.4	1366.5	1361.1	1352.9	1361.1	1366.5	1379.4	1397.0	1426.1
165°	1496.0	1465.5	1445.8	1435.0	1427.8	1420.7	1427.8	1435.0	1445.8	1465.5	1496.0
167.5°	1566.0	1532.6	1519.7	1507.5	1500.7	1487.8	1500.7	1507.5	1519.7	1532.6	1566.0
170°	1609.0	1578.5	1571.4	1560.6	1548.0	1533.7	1548.0	1560.6	1571.4	1578.5	1609.0
172.5°	1646.3	1625.9	1618.7	1607.9	1604.0	1592.5	1604.0	1607.9	1618.7	1625.9	1646.3
175°	1700.5	1684.4	1684.4	1682.6	1677.2	1666.4	1677.2	1682.6	1684.4	1684.4	1700.5
177.5°	1745.7	1737.1	1742.8	1742.8	1741.4	1731.4	1741.4	1742.8	1742.8	1737.1	1745.7
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	7848.4	7848.4	7848.4	7848.4
2.5°	7791.8	7817.7	7830.8	7843.9
5°	7498.6	7520.6	7538.8	7557.0
7.5°	6920.7	6935.8	6929.9	6924.0
10°	6419.4	6420.2	6415.8	6411.4
12.5°	5832.2	5852.3	5834.8	5817.3
15°	4897.5	4937.6	4909.3	4881.0
17.5°	3972.4	3997.2	4000.1	4003.0
20°	3396.9	3418.2	3422.6	3427.0
22.5°	2909.9	2918.9	2926.3	2933.7
25°	2276.7	2295.9	2319.7	2343.6
27.5°	1869.1	1880.4	1880.7	1881.1
30°	1645.4	1657.3	1661.7	1666.1
32.5°	1468.5	1481.2	1478.1	1474.9
35°	1215.9	1226.3	1226.3	1226.3
37.5°	985.8	993.5	994.6	995.7
40°	836.8	842.3	845.5	848.6
42.5°	695.4	698.0	689.6	681.2
45°	483.2	470.7	435.5	400.3
47.5°	281.9	249.4	210.7	172.0
50°	180.1	139.6	109.4	79.2
52.5°	114.5	76.6	61.5	46.4
55°	50.4	29.9	24.8	19.8
57.5°	20.3	12.9	10.1	7.4
60°	9.0	5.3	4.1	2.8
62.5°	4.1	2.1	1.3	0.6
65°	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	2.5	1.1
90°	32.3	19.7	12.6	5.4
92.5°	69.6	48.4	34.1	19.7
95°	139.9	111.2	78.9	55.6
97.5°	222.8	176.5	144.6	106.2
100°	267.3	222.4	191.9	150.7
102.5°	316.1	278.4	236.4	195.2
105°	403.6	357.0	308.5	261.9
107.5°	484.7	433.4	375.3	333.3
110°	536.3	480.7	419.7	382.1



TEST NUMBER: P1427635

CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	586.6	529.5	467.1	429.4
115°	654.7	591.9	534.5	502.3
117.5°	720.4	655.8	595.2	569.7
120°	760.6	696.0	636.8	617.1
122.5°	793.6	730.4	675.5	667.3
125°	843.1	778.5	731.9	742.6
127.5°	883.3	824.1	794.6	818.7
130°	907.7	855.6	837.7	871.8
132.5°	929.2	888.6	880.7	927.7
135°	961.5	938.1	945.3	1009.9
137.5°	999.9	990.9	1014.9	1096.4
140°	1024.2	1029.6	1063.7	1155.2
142.5°	1057.3	1069.8	1113.9	1211.2
145°	1108.6	1135.5	1192.9	1289.7
147.5°	1166.7	1201.5	1272.5	1371.9
150°	1205.4	1250.3	1325.6	1420.7
152.5°	1249.9	1296.2	1371.5	1468.0
155°	1318.4	1370.4	1449.4	1531.9
157.5°	1388.4	1441.5	1516.8	1588.9
160°	1431.4	1488.8	1557.0	1623.4
162.5°	1480.2	1533.3	1592.9	1652.1
165°	1551.6	1594.7	1643.1	1693.3
167.5°	1611.5	1647.4	1685.4	1724.5
170°	1650.3	1679.0	1711.3	1741.8
172.5°	1683.3	1706.2	1729.9	1756.1
175°	1727.4	1740.0	1754.3	1770.5
177.5°	1761.5	1765.8	1770.1	1777.3
180°	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427635  
 CATALOG NUMBER: SQ2W-BBN-K-125U-100D-L940-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00