

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: P1427536

Luminaire Tested: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427536  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

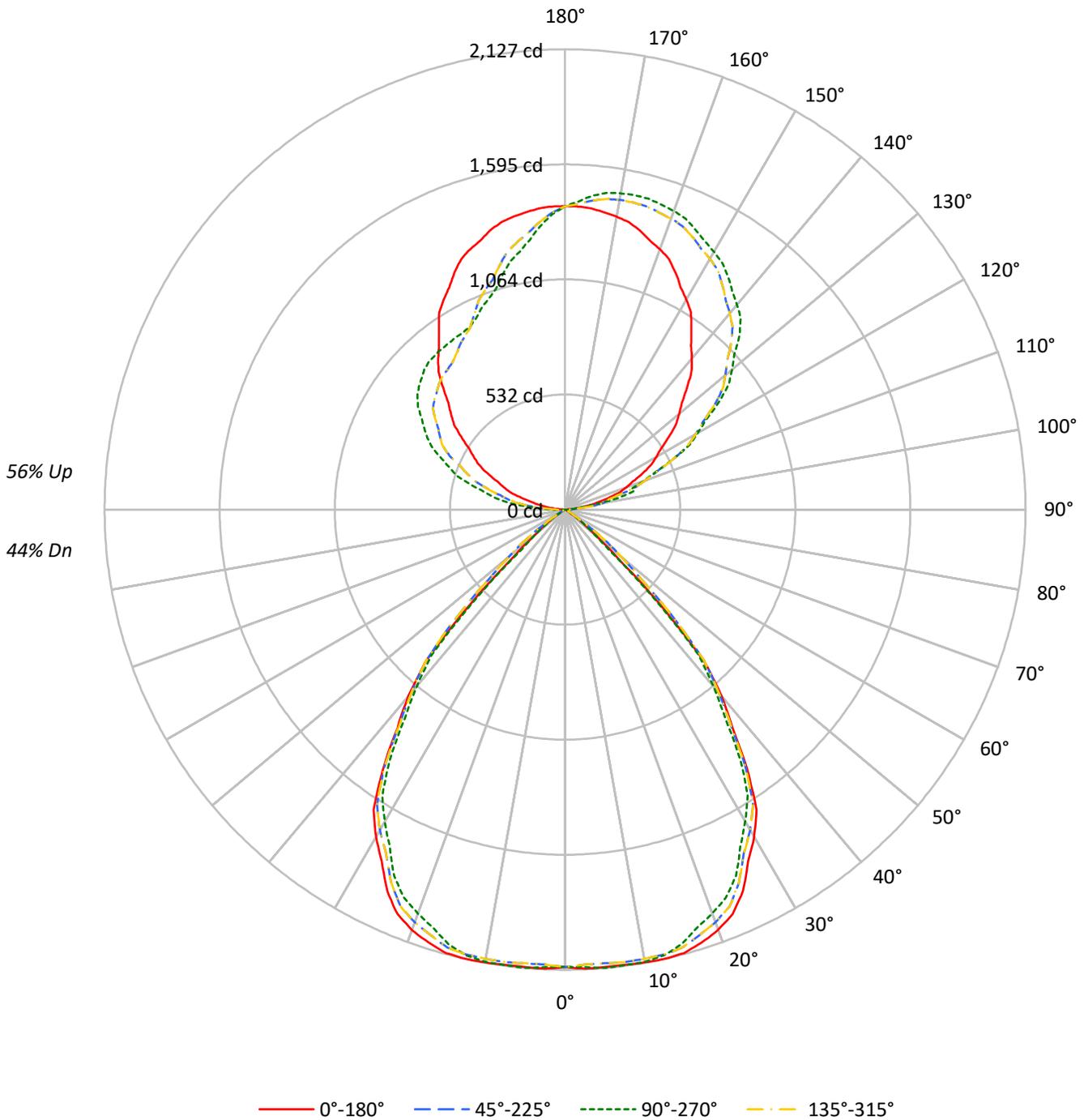
Lumens per Lamp: N/A  
Luminaire Lumens: 7256.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.7  
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: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	98	94	91	88	90	87	84	82	72	71	69	59	58	57	47	46	46	40
2	91	85	79	75	83	78	74	70	66	63	60	54	52	50	44	42	41	37
3	84	76	70	65	77	70	65	61	60	56	53	50	47	45	40	39	37	33
4	78	69	62	57	71	64	58	53	54	50	47	46	43	40	37	35	34	30
5	72	62	55	50	66	58	52	47	49	45	41	42	39	36	35	33	31	28
6	67	56	49	44	62	53	46	42	45	41	37	38	35	33	32	30	28	25
7	62	51	44	39	58	48	42	37	42	37	33	36	32	30	30	27	26	23
8	58	47	40	35	54	44	38	34	38	34	30	33	29	27	28	25	24	21
9	54	43	37	32	50	41	35	31	35	31	28	31	27	25	26	23	22	20
10	51	40	33	29	47	38	32	28	33	28	25	28	25	23	24	22	20	18

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

	0°	90°	180°	270°
0°	34140	34140	34140	34140
5°	34406	34458	34406	34458
10°	34840	34788	34840	34788
15°	35468	34761	35468	34761
20°	35513	34132	35513	34132
25°	34635	33278	34635	33278
30°	32559	31039	32559	31039
35°	28897	27813	28897	27813
40°	23698	22428	23698	22428
45°	14129	13259	14129	13259
50°	4411	4172	4411	4172
55°	1666	1666	1666	1666
60°	103	36	103	36
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: 16543 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	2.8
10°-20°	592.2	8.2
20°-30°	871.3	12.0
30°-40°	890.5	12.3
40°-50°	513.0	7.1
50°-60°	88.3	1.2
60°-70°	3.2	0.0
70°-80°	0.0	0.0
80°-90°	7.4	0.1
90°-100°	111.5	1.5
100°-110°	325.1	4.5
110°-120°	530.5	7.3
120°-130°	673.2	9.3
130°-140°	720.3	9.9
140°-150°	672.6	9.3
150°-160°	553.5	7.6
160°-170°	371.2	5.1
170°-180°	131.8	1.8
0°-30°	1665.7	23.0
0°-40°	2556.2	35.2
0°-60°	3157.4	43.5
0°-90°	3168.1	43.7
90°-120°	967.1	13.3
90°-150°	3033.2	41.8
90°-180°	4090.0	56.4
0°-180°	7256.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2114	2114	2114	2114	2114	
5°	2123	2126	2123	2126	2123	203
15°	2122	2080	2122	2080	2122	597
25°	1944	1868	1944	1868	1944	887
35°	1466	1411	1466	1411	1466	906
45°	619	581	619	581	619	479
55°	59	59	59	59	59	63
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	4	31	4	61	4	3
95°	44	32	44	191	44	53
105°	207	331	207	456	207	220
115°	396	549	396	676	396	390
125°	586	870	586	829	586	524
135°	796	1139	796	918	796	616
145°	1017	1313	1017	938	1017	636
155°	1208	1426	1208	973	1208	555
165°	1336	1487	1336	1120	1336	376
175°	1396	1456	1396	1314	1396	132
180°	1401	1401	1401	1401	1401	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5
2.5°	2123.8	2121.1	2118.5	2112.2	2104.7	2105.3	2113.9	2119.9	2118.0	2116.2	2118.0
5°	2122.9	2120.6	2118.2	2111.7	2103.7	2106.0	2118.7	2128.0	2127.0	2126.1	2127.0
7.5°	2121.7	2120.1	2118.5	2113.8	2108.2	2110.6	2121.0	2128.3	2125.9	2123.6	2125.9
10°	2125.1	2124.6	2124.1	2116.9	2107.5	2108.2	2119.1	2126.6	2124.2	2121.9	2124.2
12.5°	2126.7	2129.7	2132.6	2122.3	2107.6	2104.6	2113.1	2118.5	2114.3	2110.0	2114.3
15°	2121.9	2129.9	2137.9	2123.3	2101.2	2090.9	2092.3	2091.8	2085.7	2079.6	2085.7
17.5°	2098.2	2109.5	2120.7	2101.5	2072.1	2054.8	2049.6	2043.6	2034.9	2026.3	2034.9
20°	2066.9	2080.0	2093.2	2072.2	2039.7	2019.0	2010.1	2001.5	1994.0	1986.5	1994.0
22.5°	2022.9	2034.9	2046.9	2026.7	1995.8	1974.8	1963.6	1953.7	1947.7	1941.6	1947.7
25°	1944.2	1952.2	1960.2	1939.6	1909.5	1890.2	1881.8	1874.6	1871.3	1868.0	1871.3
27.5°	1832.7	1834.9	1837.2	1820.8	1798.3	1781.7	1771.2	1762.2	1758.0	1753.8	1758.0
30°	1746.4	1746.4	1746.4	1733.7	1716.8	1702.7	1691.4	1680.9	1672.9	1664.9	1672.9
32.5°	1645.7	1644.5	1643.4	1634.1	1622.1	1609.8	1597.4	1586.1	1578.1	1570.1	1578.1
35°	1466.1	1471.2	1476.4	1469.9	1459.6	1448.3	1436.1	1425.2	1418.1	1411.1	1418.1
37.5°	1271.6	1273.6	1275.6	1270.2	1262.4	1251.9	1238.8	1227.4	1221.5	1215.6	1221.5
40°	1124.4	1124.9	1125.3	1118.8	1109.8	1100.7	1091.3	1082.0	1073.0	1064.1	1073.0
42.5°	952.6	962.1	971.6	967.6	959.0	947.2	932.2	920.0	916.3	912.6	916.3
45°	618.8	660.6	702.5	717.9	724.5	719.3	702.4	677.6	629.1	580.7	629.1
47.5°	311.0	363.1	415.2	451.2	482.0	473.2	425.0	376.0	324.8	273.5	324.8
50°	175.6	206.6	237.6	285.9	340.0	331.1	259.2	200.9	183.5	166.1	183.5
52.5°	117.2	130.9	144.7	183.6	230.9	227.7	174.2	131.7	121.8	111.9	121.8
55°	59.2	63.0	66.8	83.9	105.5	105.1	82.5	64.9	62.1	59.2	62.1
57.5°	20.1	25.2	30.3	37.9	46.3	46.6	38.6	31.4	26.8	22.2	26.8
60°	3.2	7.9	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1	5.3
62.5°	0.6	2.0	3.3	8.3	14.5	14.3	7.8	2.7	1.4	0.2	1.4
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	0.8	2.0	3.4	4.5	5.4	5.7	5.7	5.9	6.2	6.2	6.2
90°	4.2	9.9	17.0	22.6	26.9	28.3	28.3	29.7	31.1	31.1	31.1
92.5°	15.6	24.6	24.9	24.9	30.3	32.8	35.1	35.4	36.8	36.8	36.8
95°	43.9	48.1	72.2	70.7	48.1	38.2	32.5	32.5	32.5	32.5	32.5
97.5°	83.8	90.0	93.9	125.9	133.0	128.5	104.7	88.0	78.7	74.4	78.7
100°	118.8	121.7	130.2	131.6	166.9	200.9	183.9	162.7	155.6	151.4	155.6
102.5°	153.9	155.6	168.6	174.6	182.8	202.0	260.9	254.4	249.6	248.7	249.6
105°	206.6	208.0	232.0	243.3	249.0	249.0	247.6	275.9	321.2	331.1	321.2
107.5°	262.9	269.4	297.7	328.0	334.5	336.2	328.8	324.6	322.9	324.0	322.9
110°	301.4	311.3	345.2	383.4	393.3	396.1	393.3	389.1	386.2	386.2	386.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	338.7	353.1	391.6	435.5	452.2	460.7	454.4	451.3	448.5	450.8	448.5
115°	396.1	417.4	468.3	513.6	547.5	551.8	550.4	550.4	548.9	548.9	548.9
117.5°	449.3	483.3	540.5	593.1	632.4	643.7	649.4	647.7	646.0	648.8	646.0
120°	486.7	526.3	591.4	650.8	689.0	706.0	711.6	708.8	711.6	708.8	711.6
122.5°	526.3	575.0	638.9	700.6	745.6	764.8	771.6	772.2	772.8	771.1	772.8
125°	585.7	645.2	720.1	783.8	830.5	853.1	858.8	860.2	863.0	870.1	863.0
127.5°	645.7	713.1	795.4	856.8	904.6	932.1	940.8	944.0	949.9	953.0	949.9
130°	687.6	764.0	847.5	905.5	952.2	981.9	997.4	1001.7	1008.8	1007.3	1008.8
132.5°	731.7	811.5	896.1	956.4	999.7	1031.7	1045.0	1057.1	1059.7	1061.7	1059.7
135°	796.5	882.8	967.7	1027.2	1068.2	1099.3	1116.3	1127.6	1134.7	1138.9	1134.7
137.5°	864.7	955.8	1037.3	1090.3	1131.6	1158.4	1177.7	1189.6	1196.9	1200.3	1196.9
140°	911.1	998.9	1078.1	1133.3	1170.0	1196.9	1213.9	1228.1	1236.5	1236.5	1236.5
142.5°	955.3	1041.9	1118.8	1174.0	1206.3	1230.9	1249.0	1259.7	1269.4	1269.4	1269.4
145°	1017.2	1103.6	1174.3	1229.5	1256.4	1279.0	1298.8	1307.3	1312.9	1312.9	1312.9
147.5°	1082.0	1158.4	1223.0	1275.9	1298.5	1325.1	1340.7	1347.5	1354.5	1351.4	1354.5
150°	1120.5	1191.3	1253.5	1303.0	1325.7	1351.1	1366.7	1372.4	1379.4	1375.2	1379.4
152.5°	1157.9	1225.2	1281.8	1327.9	1347.2	1372.6	1390.5	1396.1	1400.9	1397.8	1400.9
155°	1208.2	1267.7	1320.0	1362.5	1379.4	1403.5	1420.5	1427.5	1433.2	1426.1	1433.2
157.5°	1253.2	1304.5	1350.0	1389.1	1407.2	1427.8	1443.7	1452.4	1458.1	1455.0	1458.1
160°	1280.4	1327.1	1368.1	1404.9	1421.9	1440.3	1457.3	1467.2	1472.8	1468.6	1472.8
162.5°	1303.0	1345.2	1384.0	1417.4	1432.1	1448.2	1468.6	1477.3	1483.0	1477.6	1483.0
165°	1335.6	1369.5	1403.5	1431.8	1444.5	1457.3	1478.5	1488.4	1492.6	1487.0	1492.6
167.5°	1360.2	1386.2	1413.7	1438.0	1447.4	1459.8	1481.0	1489.2	1494.6	1487.5	1494.6
170°	1373.8	1396.4	1420.5	1440.3	1447.4	1458.7	1479.9	1487.0	1491.2	1484.1	1491.2
172.5°	1385.1	1402.1	1421.6	1439.1	1442.8	1451.9	1472.0	1479.0	1482.2	1476.2	1482.2
175°	1396.4	1406.3	1420.5	1431.8	1430.4	1436.0	1453.0	1458.7	1464.3	1455.8	1464.3
177.5°	1401.8	1406.3	1410.8	1417.6	1413.1	1413.1	1425.6	1429.0	1430.1	1425.6	1430.1
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5
2.5°	2119.9	2113.9	2105.3	2104.7	2112.2	2118.5	2121.1	2123.8	2121.1	2118.5	2112.2
5°	2128.0	2118.7	2106.0	2103.7	2111.7	2118.2	2120.6	2122.9	2120.6	2118.2	2111.7
7.5°	2128.3	2121.0	2110.6	2108.2	2113.8	2118.5	2120.1	2121.7	2120.1	2118.5	2113.8
10°	2126.6	2119.1	2108.2	2107.5	2116.9	2124.1	2124.6	2125.1	2124.6	2124.1	2116.9
12.5°	2118.5	2113.1	2104.6	2107.6	2122.3	2132.6	2129.7	2126.7	2129.7	2132.6	2122.3
15°	2091.8	2092.3	2090.9	2101.2	2123.3	2137.9	2129.9	2121.9	2129.9	2137.9	2123.3
17.5°	2043.6	2049.6	2054.8	2072.1	2101.5	2120.7	2109.5	2098.2	2109.5	2120.7	2101.5
20°	2001.5	2010.1	2019.0	2039.7	2072.2	2093.2	2080.0	2066.9	2080.0	2093.2	2072.2
22.5°	1953.7	1963.6	1974.8	1995.8	2026.7	2046.9	2034.9	2022.9	2034.9	2046.9	2026.7
25°	1874.6	1881.8	1890.2	1909.5	1939.6	1960.2	1952.2	1944.2	1952.2	1960.2	1939.6
27.5°	1762.2	1771.2	1781.7	1798.3	1820.8	1837.2	1834.9	1832.7	1834.9	1837.2	1820.8
30°	1680.9	1691.4	1702.7	1716.8	1733.7	1746.4	1746.4	1746.4	1746.4	1746.4	1733.7
32.5°	1586.1	1597.4	1609.8	1622.1	1634.1	1643.4	1644.5	1645.7	1644.5	1643.4	1634.1
35°	1425.2	1436.1	1448.3	1459.6	1469.9	1476.4	1471.2	1466.1	1471.2	1476.4	1469.9
37.5°	1227.4	1238.8	1251.9	1262.4	1270.2	1275.6	1273.6	1271.6	1273.6	1275.6	1270.2
40°	1082.0	1091.3	1100.7	1109.8	1118.8	1125.3	1124.9	1124.4	1124.9	1125.3	1118.8
42.5°	920.0	932.2	947.2	959.0	967.6	971.6	962.1	952.6	962.1	971.6	967.6
45°	677.6	702.4	719.3	724.5	717.9	702.5	660.6	618.8	660.6	702.5	717.9
47.5°	376.0	425.0	473.2	482.0	451.2	415.2	363.1	311.0	363.1	415.2	451.2
50°	200.9	259.2	331.1	340.0	285.9	237.6	206.6	175.6	206.6	237.6	285.9
52.5°	131.7	174.2	227.7	230.9	183.6	144.7	130.9	117.2	130.9	144.7	183.6
55°	64.9	82.5	105.1	105.5	83.9	66.8	63.0	59.2	63.0	66.8	83.9
57.5°	31.4	38.6	46.6	46.3	37.9	30.3	25.2	20.1	25.2	30.3	37.9
60°	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9	12.6	18.7
62.5°	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0	3.3	8.3
65°	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.4
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°	5.9	5.7	5.7	5.4	4.5	3.4	2.0	0.8	2.0	3.1	5.1
90°	29.7	28.3	28.3	26.9	22.6	17.0	9.9	4.2	9.9	15.6	25.5
92.5°	35.4	35.1	32.8	30.3	24.9	24.9	24.6	15.6	26.9	38.2	54.9
95°	32.5	32.5	38.2	48.1	70.7	72.2	48.1	43.9	62.3	87.7	110.4
97.5°	88.0	104.7	128.5	133.0	125.9	93.9	90.0	83.8	114.0	139.2	175.7
100°	162.7	183.9	200.9	166.9	131.6	130.2	121.7	118.8	151.4	175.4	210.8
102.5°	254.4	260.9	202.0	182.8	174.6	168.6	155.6	153.9	186.5	219.6	249.3
105°	275.9	247.6	249.0	249.0	243.3	232.0	208.0	206.6	243.3	281.5	318.3
107.5°	324.6	328.8	336.2	334.5	328.0	297.7	269.4	262.9	296.0	341.8	382.3
110°	389.1	393.3	396.1	393.3	383.4	345.2	311.3	301.4	331.1	379.2	423.0



TEST NUMBER: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	451.3	454.4	460.7	452.2	435.5	391.6	353.1	338.7	368.4	417.7	462.6
115°	550.4	550.4	551.8	547.5	513.6	468.3	417.4	396.1	421.6	466.9	516.4
117.5°	647.7	649.4	643.7	632.4	593.1	540.5	483.3	449.3	469.4	517.3	568.2
120°	708.8	711.6	706.0	689.0	650.8	591.4	526.3	486.7	502.3	548.9	599.9
122.5°	772.2	771.6	764.8	745.6	700.6	638.9	575.0	526.3	532.8	576.1	625.9
125°	860.2	858.8	853.1	830.5	783.8	720.1	645.2	585.7	577.2	614.0	665.0
127.5°	944.0	940.8	932.1	904.6	856.8	795.4	713.1	645.7	626.8	650.0	696.7
130°	1001.7	997.4	981.9	952.2	905.5	847.5	764.0	687.6	660.7	674.9	715.9
132.5°	1057.1	1045.0	1031.7	999.7	956.4	896.1	811.5	731.7	694.7	700.9	732.9
135°	1127.6	1116.3	1099.3	1068.2	1027.2	967.7	882.8	796.5	745.6	739.9	758.3
137.5°	1189.6	1177.7	1158.4	1131.6	1090.3	1037.3	955.8	864.7	800.5	781.5	788.6
140°	1228.1	1213.9	1196.9	1170.0	1133.3	1078.1	998.9	911.1	839.0	812.1	807.9
142.5°	1259.7	1249.0	1230.9	1206.3	1174.0	1118.8	1041.9	955.3	878.6	843.8	833.9
145°	1307.3	1298.8	1279.0	1256.4	1229.5	1174.3	1103.6	1017.2	940.8	895.6	874.4
147.5°	1347.5	1340.7	1325.1	1298.5	1275.9	1223.0	1158.4	1082.0	1003.7	947.6	920.2
150°	1372.4	1366.7	1351.1	1325.7	1303.0	1253.5	1191.3	1120.5	1045.5	986.1	950.8
152.5°	1396.1	1390.5	1372.6	1347.2	1327.9	1281.8	1225.2	1157.9	1081.8	1022.3	985.8
155°	1427.5	1420.5	1403.5	1379.4	1362.5	1320.0	1267.7	1208.2	1143.2	1080.9	1039.9
157.5°	1452.4	1443.7	1427.8	1407.2	1389.1	1350.0	1304.5	1253.2	1196.4	1136.9	1095.1
160°	1467.2	1457.3	1440.3	1421.9	1404.9	1368.1	1327.1	1280.4	1228.1	1174.3	1129.0
162.5°	1477.3	1468.6	1448.2	1432.1	1417.4	1384.0	1345.2	1303.0	1256.4	1209.4	1167.5
165°	1488.4	1478.5	1457.3	1444.5	1431.8	1403.5	1369.5	1335.6	1296.0	1257.8	1223.8
167.5°	1489.2	1481.0	1459.8	1447.4	1438.0	1413.7	1386.2	1360.2	1329.4	1299.4	1271.1
170°	1487.0	1479.9	1458.7	1447.4	1440.3	1420.5	1396.4	1373.8	1349.7	1324.3	1301.6
172.5°	1479.0	1472.0	1451.9	1442.8	1439.1	1421.6	1402.1	1385.1	1364.4	1345.8	1327.7
175°	1458.7	1453.0	1436.0	1430.4	1431.8	1420.5	1406.3	1396.4	1383.7	1372.4	1362.5
177.5°	1429.0	1425.6	1413.1	1413.1	1417.6	1410.8	1406.3	1401.8	1396.1	1392.7	1389.3
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5	2114.5
2.5°	2104.7	2105.3	2113.9	2119.9	2118.0	2116.2	2118.0	2119.9	2113.9	2105.3	2104.7
5°	2103.7	2106.0	2118.7	2128.0	2127.0	2126.1	2127.0	2128.0	2118.7	2106.0	2103.7
7.5°	2108.2	2110.6	2121.0	2128.3	2125.9	2123.6	2125.9	2128.3	2121.0	2110.6	2108.2
10°	2107.5	2108.2	2119.1	2126.6	2124.2	2121.9	2124.2	2126.6	2119.1	2108.2	2107.5
12.5°	2107.6	2104.6	2113.1	2118.5	2114.3	2110.0	2114.3	2118.5	2113.1	2104.6	2107.6
15°	2101.2	2090.9	2092.3	2091.8	2085.7	2079.6	2085.7	2091.8	2092.3	2090.9	2101.2
17.5°	2072.1	2054.8	2049.6	2043.6	2034.9	2026.3	2034.9	2043.6	2049.6	2054.8	2072.1
20°	2039.7	2019.0	2010.1	2001.5	1994.0	1986.5	1994.0	2001.5	2010.1	2019.0	2039.7
22.5°	1995.8	1974.8	1963.6	1953.7	1947.7	1941.6	1947.7	1953.7	1963.6	1974.8	1995.8
25°	1909.5	1890.2	1881.8	1874.6	1871.3	1868.0	1871.3	1874.6	1881.8	1890.2	1909.5
27.5°	1798.3	1781.7	1771.2	1762.2	1758.0	1753.8	1758.0	1762.2	1771.2	1781.7	1798.3
30°	1716.8	1702.7	1691.4	1680.9	1672.9	1664.9	1672.9	1680.9	1691.4	1702.7	1716.8
32.5°	1622.1	1609.8	1597.4	1586.1	1578.1	1570.1	1578.1	1586.1	1597.4	1609.8	1622.1
35°	1459.6	1448.3	1436.1	1425.2	1418.1	1411.1	1418.1	1425.2	1436.1	1448.3	1459.6
37.5°	1262.4	1251.9	1238.8	1227.4	1221.5	1215.6	1221.5	1227.4	1238.8	1251.9	1262.4
40°	1109.8	1100.7	1091.3	1082.0	1073.0	1064.1	1073.0	1082.0	1091.3	1100.7	1109.8
42.5°	959.0	947.2	932.2	920.0	916.3	912.6	916.3	920.0	932.2	947.2	959.0
45°	724.5	719.3	702.4	677.6	629.1	580.7	629.1	677.6	702.4	719.3	724.5
47.5°	482.0	473.2	425.0	376.0	324.8	273.5	324.8	376.0	425.0	473.2	482.0
50°	340.0	331.1	259.2	200.9	183.5	166.1	183.5	200.9	259.2	331.1	340.0
52.5°	230.9	227.7	174.2	131.7	121.8	111.9	121.8	131.7	174.2	227.7	230.9
55°	105.5	105.1	82.5	64.9	62.1	59.2	62.1	64.9	82.5	105.1	105.5
57.5°	46.3	46.6	38.6	31.4	26.8	22.2	26.8	31.4	38.6	46.6	46.3
60°	25.3	24.6	16.6	9.5	5.3	1.1	5.3	9.5	16.6	24.6	25.3
62.5°	14.5	14.3	7.8	2.7	1.4	0.2	1.4	2.7	7.8	14.3	14.5
65°	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.8	0.8	0.8
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°	6.5	8.5	10.5	11.6	12.7	12.2	12.7	11.6	10.5	8.5	6.5
90°	32.5	42.4	52.3	58.0	63.7	60.8	63.7	58.0	52.3	42.4	32.5
92.5°	65.4	82.1	94.2	104.4	108.9	108.4	108.9	104.4	94.2	82.1	65.4
95°	131.6	151.4	171.2	185.3	193.8	191.0	193.8	185.3	171.2	151.4	131.6
97.5°	202.9	229.5	251.6	264.9	273.3	279.0	273.3	264.9	251.6	229.5	202.9
100°	250.4	275.9	301.4	316.9	331.1	336.7	331.1	316.9	301.4	275.9	250.4
102.5°	288.9	322.3	350.0	366.7	378.6	384.3	378.6	366.7	350.0	322.3	288.9
105°	352.3	387.7	417.4	438.6	451.3	455.6	451.3	438.6	417.4	387.7	352.3
107.5°	415.7	452.2	479.6	503.1	518.7	527.7	518.7	503.1	479.6	452.2	415.7
110°	465.5	495.2	524.9	546.1	561.7	567.3	561.7	546.1	524.9	495.2	465.5



TEST NUMBER: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	507.4	540.5	570.2	591.4	609.2	617.1	609.2	591.4	570.2	540.5	507.4
115°	565.9	609.8	636.7	656.5	669.2	676.3	669.2	656.5	636.7	609.8	565.9
117.5°	614.6	660.4	689.9	705.1	711.1	716.2	711.1	705.1	689.9	660.4	614.6
120°	645.2	687.6	721.6	741.4	748.4	751.3	748.4	741.4	721.6	687.6	645.2
122.5°	673.4	713.6	746.5	770.8	782.4	785.2	782.4	770.8	746.5	713.6	673.4
125°	713.1	751.3	785.2	809.3	822.0	829.1	822.0	809.3	785.2	751.3	713.1
127.5°	747.6	788.9	820.0	841.8	854.3	859.9	854.3	841.8	820.0	788.9	747.6
130°	766.8	809.3	840.4	864.4	875.8	881.4	875.8	864.4	840.4	809.3	766.8
132.5°	781.5	826.2	858.5	880.3	892.7	898.4	892.7	880.3	858.5	826.2	781.5
135°	799.4	846.1	880.0	901.2	912.6	918.2	912.6	901.2	880.0	846.1	799.4
137.5°	814.9	857.4	892.7	915.1	925.3	929.0	925.3	915.1	892.7	857.4	814.9
140°	826.2	863.0	898.4	919.6	930.9	932.4	930.9	919.6	898.4	863.0	826.2
142.5°	841.0	869.8	900.7	921.9	933.2	935.8	933.2	921.9	900.7	869.8	841.0
145°	867.3	884.3	905.5	925.3	935.2	938.0	935.2	925.3	905.5	884.3	867.3
147.5°	900.4	905.8	916.8	929.8	939.4	941.4	939.4	929.8	916.8	905.8	900.4
150°	925.3	923.9	928.1	936.6	945.1	943.7	945.1	936.6	928.1	923.9	925.3
152.5°	953.6	945.4	945.1	949.1	953.0	952.7	953.0	949.1	945.1	945.4	953.6
155°	1001.7	986.1	977.6	974.8	974.8	973.4	974.8	974.8	977.6	986.1	1001.7
157.5°	1054.6	1032.8	1020.1	1013.3	1011.3	1008.2	1011.3	1013.3	1020.1	1032.8	1054.6
160°	1090.8	1066.8	1054.0	1042.7	1038.5	1034.2	1038.5	1042.7	1054.0	1066.8	1090.8
162.5°	1124.8	1101.9	1088.0	1077.8	1073.6	1067.1	1073.6	1077.8	1088.0	1101.9	1124.8
165°	1180.0	1155.9	1140.3	1131.8	1126.2	1120.5	1126.2	1131.8	1140.3	1155.9	1180.0
167.5°	1235.1	1208.8	1198.6	1189.0	1183.6	1173.4	1183.6	1189.0	1198.6	1208.8	1235.1
170°	1269.1	1245.0	1239.4	1230.9	1221.0	1209.7	1221.0	1230.9	1239.4	1245.0	1269.1
172.5°	1298.5	1282.4	1276.7	1268.2	1265.1	1256.1	1265.1	1268.2	1276.7	1282.4	1298.5
175°	1341.2	1328.5	1328.5	1327.1	1322.8	1314.4	1322.8	1327.1	1328.5	1328.5	1341.2
177.5°	1376.9	1370.1	1374.6	1374.6	1373.5	1365.6	1373.5	1374.6	1374.6	1370.1	1376.9
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2114.5	2114.5	2114.5	2114.5
2.5°	2112.2	2118.5	2121.1	2123.8
5°	2111.7	2118.2	2120.6	2122.9
7.5°	2113.8	2118.5	2120.1	2121.7
10°	2116.9	2124.1	2124.6	2125.1
12.5°	2122.3	2132.6	2129.7	2126.7
15°	2123.3	2137.9	2129.9	2121.9
17.5°	2101.5	2120.7	2109.5	2098.2
20°	2072.2	2093.2	2080.0	2066.9
22.5°	2026.7	2046.9	2034.9	2022.9
25°	1939.6	1960.2	1952.2	1944.2
27.5°	1820.8	1837.2	1834.9	1832.7
30°	1733.7	1746.4	1746.4	1746.4
32.5°	1634.1	1643.4	1644.5	1645.7
35°	1469.9	1476.4	1471.2	1466.1
37.5°	1270.2	1275.6	1273.6	1271.6
40°	1118.8	1125.3	1124.9	1124.4
42.5°	967.6	971.6	962.1	952.6
45°	717.9	702.5	660.6	618.8
47.5°	451.2	415.2	363.1	311.0
50°	285.9	237.6	206.6	175.6
52.5°	183.6	144.7	130.9	117.2
55°	83.9	66.8	63.0	59.2
57.5°	37.9	30.3	25.2	20.1
60°	18.7	12.6	7.9	3.2
62.5°	8.3	3.3	2.0	0.6
65°	0.4	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°	5.1	3.1	2.0	0.8
90°	25.5	15.6	9.9	4.2
92.5°	54.9	38.2	26.9	15.6
95°	110.4	87.7	62.3	43.9
97.5°	175.7	139.2	114.0	83.8
100°	210.8	175.4	151.4	118.8
102.5°	249.3	219.6	186.5	153.9
105°	318.3	281.5	243.3	206.6
107.5°	382.3	341.8	296.0	262.9
110°	423.0	379.2	331.1	301.4



TEST NUMBER: P1427536

CATALOG NUMBER: SQ2W-BBM-K-100U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	462.6	417.7	368.4	338.7
115°	516.4	466.9	421.6	396.1
117.5°	568.2	517.3	469.4	449.3
120°	599.9	548.9	502.3	486.7
122.5°	625.9	576.1	532.8	526.3
125°	665.0	614.0	577.2	585.7
127.5°	696.7	650.0	626.8	645.7
130°	715.9	674.9	660.7	687.6
132.5°	732.9	700.9	694.7	731.7
135°	758.3	739.9	745.6	796.5
137.5°	788.6	781.5	800.5	864.7
140°	807.9	812.1	839.0	911.1
142.5°	833.9	843.8	878.6	955.3
145°	874.4	895.6	940.8	1017.2
147.5°	920.2	947.6	1003.7	1082.0
150°	950.8	986.1	1045.5	1120.5
152.5°	985.8	1022.3	1081.8	1157.9
155°	1039.9	1080.9	1143.2	1208.2
157.5°	1095.1	1136.9	1196.4	1253.2
160°	1129.0	1174.3	1228.1	1280.4
162.5°	1167.5	1209.4	1256.4	1303.0
165°	1223.8	1257.8	1296.0	1335.6
167.5°	1271.1	1299.4	1329.4	1360.2
170°	1301.6	1324.3	1349.7	1373.8
172.5°	1327.7	1345.8	1364.4	1385.1
175°	1362.5	1372.4	1383.7	1396.4
177.5°	1389.3	1392.7	1396.1	1401.8
180°	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427536  
 CATALOG NUMBER: SQ2W-BBM-K-100U-075D-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	0.31	0.00	0.00	0.00	0.00	0.52
	3H	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.28
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
	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	0.15
	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