

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: P1427646

Luminaire Tested: SQ2W-BBN-K-150U-100D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427646  
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-150U-100D-L935-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 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

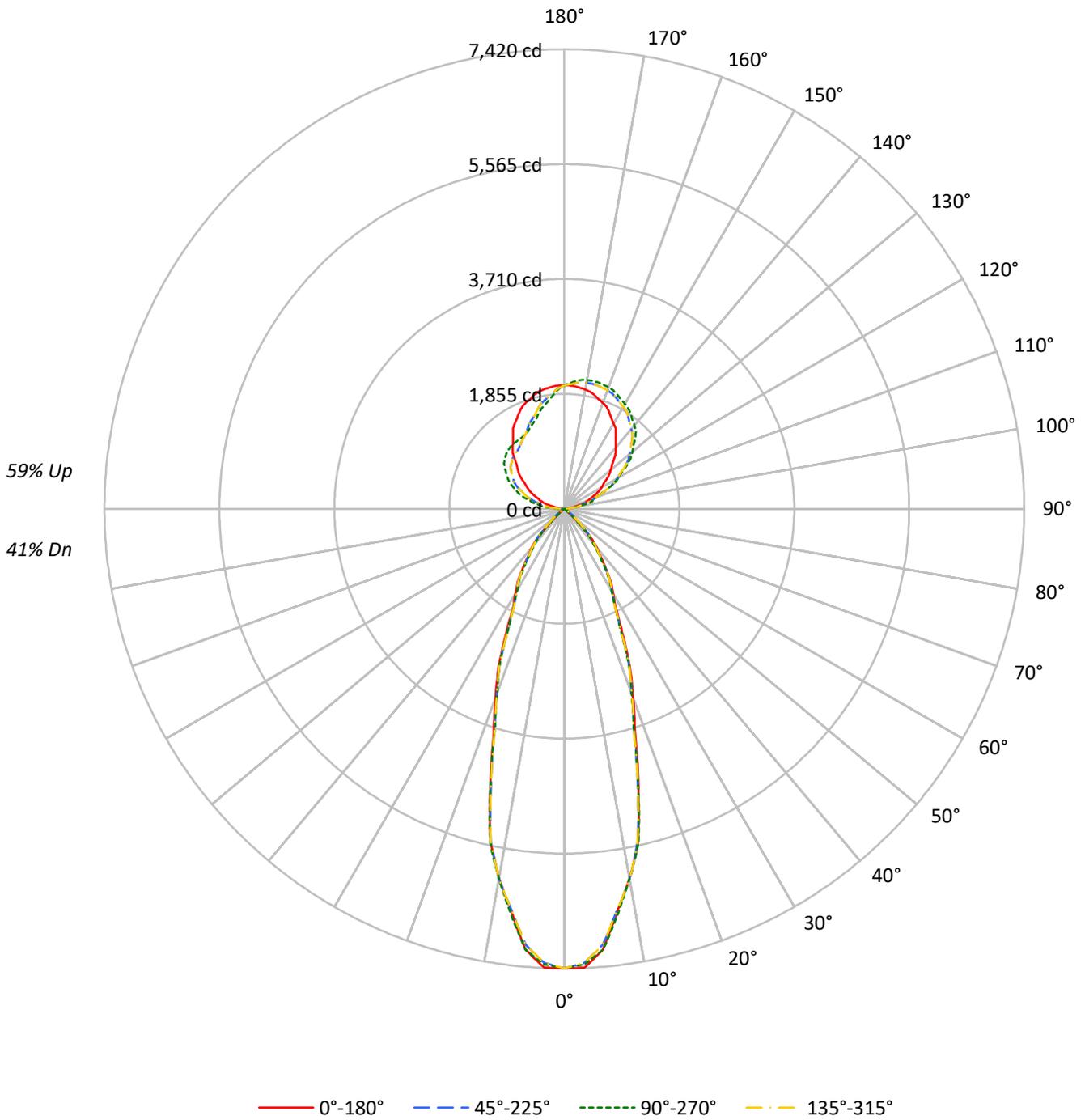
Lumens per Lamp: N/A  
Luminaire Lumens: 9833.4 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 93.2  
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: P1427646

CATALOG NUMBER: SQ2W-BBN-K-150U-100D-L935-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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	98	94	91	88	89	86	84	81	71	70	68	58	57	56	45	45	44	38				
2	91	85	80	76	83	78	74	71	65	63	60	54	52	50	43	42	41	36				
3	85	77	71	66	77	71	66	62	60	57	54	50	48	46	40	39	38	34				
4	79	70	64	59	72	65	60	55	55	51	48	46	44	42	38	36	35	32				
5	74	64	58	53	68	60	54	50	51	47	44	43	40	38	36	34	33	30				
6	69	59	52	47	64	55	49	45	48	43	40	41	38	35	34	32	31	28				
7	65	54	48	43	60	51	45	41	44	40	37	38	35	33	32	30	29	26				
8	61	51	44	40	56	47	42	38	41	37	34	36	33	31	31	29	27	25				
9	57	47	41	36	53	44	39	35	39	35	32	34	31	29	29	27	26	24				
10	54	44	38	34	50	41	36	32	37	32	30	32	29	27	28	26	24	22				

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

	0°	90°	180°	270°
0°	119797	119797	119797	119797
5°	115789	115854	115789	115854
10°	99371	99371	99371	99371
15°	77132	76953	77132	76953
20°	55667	54473	55667	54473
25°	39470	37970	39470	37970
30°	29365	28343	29365	28343
35°	22850	21795	22850	21795
40°	16910	15445	16910	15445
45°	8640	6962	8640	6962
50°	1881	1376	1881	1376
55°	526	414	526	414
60°	87	42	87	42
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: 10540 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.6	6.5
10°-20°	1265.0	12.9
20°-30°	1020.4	10.4
30°-40°	708.9	7.2
40°-50°	327.4	3.3
50°-60°	45.9	0.5
60°-70°	1.6	0.0
70°-80°	0.0	0.0
80°-90°	10.6	0.1
90°-100°	158.5	1.6
100°-110°	462.2	4.7
110°-120°	754.2	7.7
120°-130°	957.1	9.7
130°-140°	1024.1	10.4
140°-150°	956.3	9.7
150°-160°	786.9	8.0
160°-170°	527.7	5.4
170°-180°	187.4	1.9
0°-30°	2927.0	29.8
0°-40°	3635.8	37.0
0°-60°	4009.1	40.8
0°-90°	4021.3	40.9
90°-120°	1374.9	14.0
90°-150°	4312.4	43.9
90°-180°	5814.0	59.1
0°-180°	9833.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7420	7420	7420	7420	7420	
5°	7144	7148	7144	7148	7144	642
15°	4614	4604	4614	4604	4614	1270
25°	2216	2131	2216	2131	2216	1037
35°	1159	1106	1159	1106	1159	725
45°	378	305	378	305	378	306
55°	19	15	19	15	19	24
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	6	44	6	86	6	5
95°	62	46	62	272	62	75
105°	294	471	294	648	294	312
115°	563	780	563	962	563	555
125°	833	1237	833	1179	833	745
135°	1132	1619	1132	1306	1132	875
145°	1446	1867	1446	1334	1446	905
155°	1718	2028	1718	1384	1718	790
165°	1899	2114	1899	1593	1899	535
175°	1985	2070	1985	1869	1985	188
180°	1991	1991	1991	1991	1991	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	7415.5	7403.1	7390.8	7366.3	7337.8	7336.6	7362.7	7380.3	7372.2	7364.2	7372.2
5°	7144.3	7127.1	7109.9	7089.1	7067.1	7075.4	7114.0	7143.6	7146.0	7148.3	7146.0
7.5°	6545.8	6551.4	6557.0	6542.7	6521.8	6532.7	6575.5	6606.4	6601.8	6597.2	6601.8
10°	6061.2	6065.4	6069.6	6068.8	6066.4	6072.4	6086.7	6093.3	6077.3	6061.2	6077.3
12.5°	5499.7	5516.2	5532.7	5513.6	5482.7	5478.0	5499.4	5517.1	5523.9	5530.7	5523.9
15°	4614.5	4641.2	4668.0	4630.1	4570.6	4555.2	4583.7	4605.0	4604.4	4603.8	4604.4
17.5°	3784.4	3781.6	3778.9	3755.5	3725.2	3712.7	3718.0	3721.6	3719.8	3718.0	3719.8
20°	3239.9	3235.7	3231.6	3211.4	3185.8	3170.9	3166.8	3164.4	3167.4	3170.4	3167.4
22.5°	2773.5	2766.5	2759.5	2751.0	2742.1	2732.5	2722.1	2715.4	2719.3	2723.2	2719.3
25°	2215.6	2193.1	2170.5	2152.3	2135.7	2134.5	2148.8	2156.4	2143.9	2131.4	2143.9
27.5°	1778.4	1778.0	1777.7	1767.0	1752.8	1746.5	1748.1	1749.8	1752.2	1754.6	1752.2
30°	1575.1	1571.0	1566.8	1555.5	1541.9	1535.3	1535.9	1534.6	1527.5	1520.3	1527.5
32.5°	1394.4	1397.3	1400.3	1388.3	1371.3	1361.2	1358.0	1353.8	1346.7	1339.5	1346.7
35°	1159.3	1159.3	1159.3	1149.5	1136.4	1125.4	1116.5	1109.4	1107.6	1105.8	1107.6
37.5°	941.3	940.3	939.2	932.0	922.7	911.8	899.2	888.6	883.9	879.3	883.9
40°	802.3	799.3	796.3	791.1	785.2	774.5	759.0	745.8	739.3	732.8	739.3
42.5°	644.0	651.9	659.9	657.4	651.5	640.8	625.3	611.3	601.4	591.6	601.4
45°	378.4	411.7	445.0	456.9	461.6	455.1	437.2	410.7	357.8	304.9	357.8
47.5°	162.6	199.2	235.8	266.5	295.3	286.2	239.3	193.1	149.1	105.1	149.1
50°	74.9	103.4	131.9	170.3	211.9	203.2	144.4	95.2	75.0	54.8	75.0
52.5°	43.9	58.1	72.4	108.2	151.2	147.4	96.6	55.9	45.2	34.5	45.2
55°	18.7	23.5	28.2	47.7	72.1	70.9	44.1	23.0	18.9	14.7	18.9
57.5°	7.0	9.6	12.2	19.2	27.6	27.1	17.6	9.9	7.8	5.6	7.8
60°	2.7	3.9	5.1	8.5	12.6	12.3	7.6	3.7	2.5	1.3	2.5
62.5°	0.5	1.2	2.0	3.8	6.1	6.0	3.7	1.7	1.0	0.3	1.0
65°	0.0	0.0	0.0	0.4	1.0	1.0	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°	1.2	2.8	4.8	6.4	7.6	8.0	8.0	8.4	8.9	8.9	8.9
90°	6.0	14.1	24.1	32.2	38.2	40.2	40.2	42.2	44.3	44.3	44.3
92.5°	22.1	35.0	35.4	35.4	43.0	46.7	49.9	50.3	52.3	52.3	52.3
95°	62.4	68.4	102.6	100.6	68.4	54.3	46.3	46.3	46.3	46.3	46.3
97.5°	119.1	127.9	133.6	179.0	189.1	182.6	148.8	125.1	111.8	105.8	111.8
100°	169.0	173.0	185.1	187.1	237.4	285.6	261.5	231.3	221.3	215.2	221.3
102.5°	218.8	221.3	239.8	248.2	259.9	287.2	370.9	361.7	354.8	353.6	354.8
105°	293.7	295.7	329.9	346.0	354.0	354.0	352.0	392.2	456.6	470.7	456.6
107.5°	373.7	383.0	423.2	466.3	475.5	477.9	467.5	461.4	459.0	460.6	459.0
110°	428.4	442.5	490.8	545.1	559.2	563.2	559.2	553.2	549.1	549.1	549.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	481.5	502.1	556.8	619.1	642.9	654.9	646.1	641.7	637.6	640.9	637.6
115°	563.2	593.4	665.8	730.2	778.4	784.5	782.5	782.5	780.5	780.5	780.5
117.5°	638.8	687.1	768.4	843.2	899.1	915.2	923.3	920.9	918.4	922.5	918.4
120°	692.0	748.3	840.8	925.3	979.6	1003.7	1011.8	1007.8	1011.8	1007.8	1011.8
122.5°	748.3	817.5	908.4	996.1	1060.1	1087.4	1097.1	1097.9	1098.7	1096.3	1098.7
125°	832.8	917.2	1023.8	1114.4	1180.7	1212.9	1221.0	1223.0	1227.0	1237.1	1227.0
127.5°	918.0	1013.8	1130.9	1218.2	1286.1	1325.2	1337.6	1342.1	1350.5	1354.9	1350.5
130°	977.6	1086.2	1204.9	1287.3	1353.7	1396.0	1418.1	1424.1	1434.2	1432.2	1434.2
132.5°	1040.3	1153.8	1274.1	1359.8	1421.3	1466.8	1485.7	1503.0	1506.6	1509.4	1506.6
135°	1132.5	1255.2	1375.9	1460.3	1518.7	1562.9	1587.1	1603.2	1613.2	1619.2	1613.2
137.5°	1229.4	1359.0	1474.8	1550.0	1608.8	1647.0	1674.4	1691.3	1701.7	1706.5	1701.7
140°	1295.4	1420.1	1532.8	1611.2	1663.5	1701.7	1725.9	1746.0	1758.0	1758.0	1758.0
142.5°	1358.2	1481.3	1590.7	1669.1	1715.0	1750.0	1775.7	1791.0	1804.7	1804.7	1804.7
145°	1446.3	1569.0	1669.5	1748.0	1786.2	1818.4	1846.5	1858.6	1866.7	1866.7	1866.7
147.5°	1538.4	1647.0	1738.7	1814.0	1846.1	1884.0	1906.1	1915.7	1925.8	1921.4	1925.8
150°	1593.1	1693.7	1782.2	1852.6	1884.8	1921.0	1943.1	1951.1	1961.2	1955.2	1961.2
152.5°	1646.2	1741.9	1822.4	1888.0	1915.3	1951.5	1976.9	1984.9	1991.8	1987.3	1991.8
155°	1717.8	1802.3	1876.7	1937.1	1961.2	1995.4	2019.5	2029.6	2037.6	2027.6	2037.6
157.5°	1781.8	1854.6	1919.4	1974.9	2000.6	2030.0	2052.5	2065.0	2073.0	2068.6	2073.0
160°	1820.4	1886.8	1945.1	1997.4	2021.5	2047.7	2071.8	2085.9	2094.0	2087.9	2094.0
162.5°	1852.6	1912.5	1967.6	2015.1	2036.0	2059.0	2087.9	2100.4	2108.4	2100.8	2108.4
165°	1898.8	1947.1	1995.4	2035.6	2053.7	2071.8	2102.0	2116.1	2122.1	2114.1	2122.1
167.5°	1933.8	1970.9	2009.9	2044.5	2057.7	2075.4	2105.6	2117.3	2124.9	2114.9	2124.9
170°	1953.2	1985.3	2019.5	2047.7	2057.7	2073.8	2104.0	2114.1	2120.1	2110.0	2120.1
172.5°	1969.2	1993.4	2021.1	2046.1	2051.3	2064.2	2092.7	2102.8	2107.2	2098.8	2107.2
175°	1985.3	1999.4	2019.5	2035.6	2033.6	2041.7	2065.8	2073.8	2081.9	2069.8	2081.9
177.5°	1993.0	1999.4	2005.9	2015.5	2009.1	2009.1	2026.8	2031.6	2033.2	2026.8	2033.2
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	7380.3	7362.7	7336.6	7337.8	7366.3	7390.8	7403.1	7415.5	7403.1	7390.8	7366.3
5°	7143.6	7114.0	7075.4	7067.1	7089.1	7109.9	7127.1	7144.3	7127.1	7109.9	7089.1
7.5°	6606.4	6575.5	6532.7	6521.8	6542.7	6557.0	6551.4	6545.8	6551.4	6557.0	6542.7
10°	6093.3	6086.7	6072.4	6066.4	6068.8	6069.6	6065.4	6061.2	6065.4	6069.6	6068.8
12.5°	5517.1	5499.4	5478.0	5482.7	5513.6	5532.7	5516.2	5499.7	5516.2	5532.7	5513.6
15°	4605.0	4583.7	4555.2	4570.6	4630.1	4668.0	4641.2	4614.5	4641.2	4668.0	4630.1
17.5°	3721.6	3718.0	3712.7	3725.2	3755.5	3778.9	3781.6	3784.4	3781.6	3778.9	3755.5
20°	3164.4	3166.8	3170.9	3185.8	3211.4	3231.6	3235.7	3239.9	3235.7	3231.6	3211.4
22.5°	2715.4	2722.1	2732.5	2742.1	2751.0	2759.5	2766.5	2773.5	2766.5	2759.5	2751.0
25°	2156.4	2148.8	2134.5	2135.7	2152.3	2170.5	2193.1	2215.6	2193.1	2170.5	2152.3
27.5°	1749.8	1748.1	1746.5	1752.8	1767.0	1777.7	1778.0	1778.4	1778.0	1777.7	1767.0
30°	1534.6	1535.9	1535.3	1541.9	1555.5	1566.8	1571.0	1575.1	1571.0	1566.8	1555.5
32.5°	1353.8	1358.0	1361.2	1371.3	1388.3	1400.3	1397.3	1394.4	1397.3	1400.3	1388.3
35°	1109.4	1116.5	1125.4	1136.4	1149.5	1159.3	1159.3	1159.3	1159.3	1159.3	1149.5
37.5°	888.6	899.2	911.8	922.7	932.0	939.2	940.3	941.3	940.3	939.2	932.0
40°	745.8	759.0	774.5	785.2	791.1	796.3	799.3	802.3	799.3	796.3	791.1
42.5°	611.3	625.3	640.8	651.5	657.4	659.9	651.9	644.0	651.9	659.9	657.4
45°	410.7	437.2	455.1	461.6	456.9	445.0	411.7	378.4	411.7	445.0	456.9
47.5°	193.1	239.3	286.2	295.3	266.5	235.8	199.2	162.6	199.2	235.8	266.5
50°	95.2	144.4	203.2	211.9	170.3	131.9	103.4	74.9	103.4	131.9	170.3
52.5°	55.9	96.6	147.4	151.2	108.2	72.4	58.1	43.9	58.1	72.4	108.2
55°	23.0	44.1	70.9	72.1	47.7	28.2	23.5	18.7	23.5	28.2	47.7
57.5°	9.9	17.6	27.1	27.6	19.2	12.2	9.6	7.0	9.6	12.2	19.2
60°	3.7	7.6	12.3	12.6	8.5	5.1	3.9	2.7	3.9	5.1	8.5
62.5°	1.7	3.7	6.0	6.1	3.8	2.0	1.2	0.5	1.2	2.0	3.8
65°	0.0	0.4	1.0	1.0	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°	8.4	8.0	8.0	7.6	6.4	4.8	2.8	1.2	2.8	4.4	7.2
90°	42.2	40.2	40.2	38.2	32.2	24.1	14.1	6.0	14.1	22.1	36.2
92.5°	50.3	49.9	46.7	43.0	35.4	35.4	35.0	22.1	38.2	54.3	78.0
95°	46.3	46.3	54.3	68.4	100.6	102.6	68.4	62.4	88.5	124.7	156.9
97.5°	125.1	148.8	182.6	189.1	179.0	133.6	127.9	119.1	162.1	197.9	249.8
100°	231.3	261.5	285.6	237.4	187.1	185.1	173.0	169.0	215.2	249.4	299.7
102.5°	361.7	370.9	287.2	259.9	248.2	239.8	221.3	218.8	265.1	312.2	354.4
105°	392.2	352.0	354.0	354.0	346.0	329.9	295.7	293.7	346.0	400.3	452.6
107.5°	461.4	467.5	477.9	475.5	466.3	423.2	383.0	373.7	420.8	486.0	543.5
110°	553.2	559.2	563.2	559.2	545.1	490.8	442.5	428.4	470.7	539.1	601.4



TEST NUMBER: P1427646

CATALOG NUMBER: SQ2W-BBN-K-150U-100D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	641.7	646.1	654.9	642.9	619.1	556.8	502.1	481.5	523.8	593.8	657.8
115°	782.5	782.5	784.5	778.4	730.2	665.8	593.4	563.2	599.4	663.8	734.2
117.5°	920.9	923.3	915.2	899.1	843.2	768.4	687.1	638.8	667.4	735.4	807.8
120°	1007.8	1011.8	1003.7	979.6	925.3	840.8	748.3	692.0	714.1	780.5	852.9
122.5°	1097.9	1097.1	1087.4	1060.1	996.1	908.4	817.5	748.3	757.5	819.1	889.9
125°	1223.0	1221.0	1212.9	1180.7	1114.4	1023.8	917.2	832.8	820.7	873.0	945.4
127.5°	1342.1	1337.6	1325.2	1286.1	1218.2	1130.9	1013.8	918.0	891.1	924.1	990.5
130°	1424.1	1418.1	1396.0	1353.7	1287.3	1204.9	1086.2	977.6	939.4	959.5	1017.8
132.5°	1503.0	1485.7	1466.8	1421.3	1359.8	1274.1	1153.8	1040.3	987.6	996.5	1041.9
135°	1603.2	1587.1	1562.9	1518.7	1460.3	1375.9	1255.2	1132.5	1060.1	1052.0	1078.2
137.5°	1691.3	1674.4	1647.0	1608.8	1550.0	1474.8	1359.0	1229.4	1138.1	1111.1	1121.2
140°	1746.0	1725.9	1701.7	1663.5	1611.2	1532.8	1420.1	1295.4	1192.8	1154.6	1148.6
142.5°	1791.0	1775.7	1750.0	1715.0	1669.1	1590.7	1481.3	1358.2	1249.1	1199.6	1185.6
145°	1858.6	1846.5	1818.4	1786.2	1748.0	1669.5	1569.0	1446.3	1337.6	1273.3	1243.1
147.5°	1915.7	1906.1	1884.0	1846.1	1814.0	1738.7	1647.0	1538.4	1426.9	1347.3	1308.3
150°	1951.1	1943.1	1921.0	1884.8	1852.6	1782.2	1693.7	1593.1	1486.5	1402.0	1351.7
152.5°	1984.9	1976.9	1951.5	1915.3	1888.0	1822.4	1741.9	1646.2	1538.0	1453.5	1401.6
155°	2029.6	2019.5	1995.4	1961.2	1937.1	1876.7	1802.3	1717.8	1625.3	1536.8	1478.4
157.5°	2065.0	2052.5	2030.0	2000.6	1974.9	1919.4	1854.6	1781.8	1700.9	1616.4	1556.9
160°	2085.9	2071.8	2047.7	2021.5	1997.4	1945.1	1886.8	1820.4	1746.0	1669.5	1605.2
162.5°	2100.4	2087.9	2059.0	2036.0	2015.1	1967.6	1912.5	1852.6	1786.2	1719.4	1659.9
165°	2116.1	2102.0	2071.8	2053.7	2035.6	1995.4	1947.1	1898.8	1842.5	1788.2	1739.9
167.5°	2117.3	2105.6	2075.4	2057.7	2044.5	2009.9	1970.9	1933.8	1890.0	1847.3	1807.1
170°	2114.1	2104.0	2073.8	2057.7	2047.7	2019.5	1985.3	1953.2	1919.0	1882.7	1850.6
172.5°	2102.8	2092.7	2064.2	2051.3	2046.1	2021.1	1993.4	1969.2	1939.9	1913.3	1887.6
175°	2073.8	2065.8	2041.7	2033.6	2035.6	2019.5	1999.4	1985.3	1967.2	1951.1	1937.1
177.5°	2031.6	2026.8	2009.1	2009.1	2015.5	2005.9	1999.4	1993.0	1984.9	1980.1	1975.3
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8	7419.8
2.5°	7337.8	7336.6	7362.7	7380.3	7372.2	7364.2	7372.2	7380.3	7362.7	7336.6	7337.8
5°	7067.1	7075.4	7114.0	7143.6	7146.0	7148.3	7146.0	7143.6	7114.0	7075.4	7067.1
7.5°	6521.8	6532.7	6575.5	6606.4	6601.8	6597.2	6601.8	6606.4	6575.5	6532.7	6521.8
10°	6066.4	6072.4	6086.7	6093.3	6077.3	6061.2	6077.3	6093.3	6086.7	6072.4	6066.4
12.5°	5482.7	5478.0	5499.4	5517.1	5523.9	5530.7	5523.9	5517.1	5499.4	5478.0	5482.7
15°	4570.6	4555.2	4583.7	4605.0	4604.4	4603.8	4604.4	4605.0	4583.7	4555.2	4570.6
17.5°	3725.2	3712.7	3718.0	3721.6	3719.8	3718.0	3719.8	3721.6	3718.0	3712.7	3725.2
20°	3185.8	3170.9	3166.8	3164.4	3167.4	3170.4	3167.4	3164.4	3166.8	3170.9	3185.8
22.5°	2742.1	2732.5	2722.1	2715.4	2719.3	2723.2	2719.3	2715.4	2722.1	2732.5	2742.1
25°	2135.7	2134.5	2148.8	2156.4	2143.9	2131.4	2143.9	2156.4	2148.8	2134.5	2135.7
27.5°	1752.8	1746.5	1748.1	1749.8	1752.2	1754.6	1752.2	1749.8	1748.1	1746.5	1752.8
30°	1541.9	1535.3	1535.9	1534.6	1527.5	1520.3	1527.5	1534.6	1535.9	1535.3	1541.9
32.5°	1371.3	1361.2	1358.0	1353.8	1346.7	1339.5	1346.7	1353.8	1358.0	1361.2	1371.3
35°	1136.4	1125.4	1116.5	1109.4	1107.6	1105.8	1107.6	1109.4	1116.5	1125.4	1136.4
37.5°	922.7	911.8	899.2	888.6	883.9	879.3	883.9	888.6	899.2	911.8	922.7
40°	785.2	774.5	759.0	745.8	739.3	732.8	739.3	745.8	759.0	774.5	785.2
42.5°	651.5	640.8	625.3	611.3	601.4	591.6	601.4	611.3	625.3	640.8	651.5
45°	461.6	455.1	437.2	410.7	357.8	304.9	357.8	410.7	437.2	455.1	461.6
47.5°	295.3	286.2	239.3	193.1	149.1	105.1	149.1	193.1	239.3	286.2	295.3
50°	211.9	203.2	144.4	95.2	75.0	54.8	75.0	95.2	144.4	203.2	211.9
52.5°	151.2	147.4	96.6	55.9	45.2	34.5	45.2	55.9	96.6	147.4	151.2
55°	72.1	70.9	44.1	23.0	18.9	14.7	18.9	23.0	44.1	70.9	72.1
57.5°	27.6	27.1	17.6	9.9	7.8	5.6	7.8	9.9	17.6	27.1	27.6
60°	12.6	12.3	7.6	3.7	2.5	1.3	2.5	3.7	7.6	12.3	12.6
62.5°	6.1	6.0	3.7	1.7	1.0	0.3	1.0	1.7	3.7	6.0	6.1
65°	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	1.0	1.0	1.0
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°	9.3	12.1	14.9	16.5	18.1	17.3	18.1	16.5	14.9	12.1	9.3
90°	46.3	60.3	74.4	82.5	90.5	86.5	90.5	82.5	74.4	60.3	46.3
92.5°	92.9	116.7	134.0	148.4	154.9	154.1	154.9	148.4	134.0	116.7	92.9
95°	187.1	215.2	243.4	263.5	275.6	271.6	275.6	263.5	243.4	215.2	187.1
97.5°	288.4	326.3	357.6	376.5	388.6	396.7	388.6	376.5	357.6	326.3	288.4
100°	356.0	392.2	428.4	450.6	470.7	478.7	470.7	450.6	428.4	392.2	356.0
102.5°	410.7	458.2	497.6	521.4	538.3	546.3	538.3	521.4	497.6	458.2	410.7
105°	500.9	551.1	593.4	623.6	641.7	647.7	641.7	623.6	593.4	551.1	500.9
107.5°	591.0	642.9	681.9	715.3	737.4	750.3	737.4	715.3	681.9	642.9	591.0
110°	661.8	704.0	746.3	776.4	798.6	806.6	798.6	776.4	746.3	704.0	661.8



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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	721.3	768.4	810.6	840.8	866.1	877.4	866.1	840.8	810.6	768.4	721.3
115°	804.6	866.9	905.2	933.3	951.4	961.5	951.4	933.3	905.2	866.9	804.6
117.5°	873.8	939.0	980.8	1002.5	1011.0	1018.2	1011.0	1002.5	980.8	939.0	873.8
120°	917.2	977.6	1025.9	1054.0	1064.1	1068.1	1064.1	1054.0	1025.9	977.6	917.2
122.5°	957.5	1014.6	1061.3	1095.9	1112.4	1116.4	1112.4	1095.9	1061.3	1014.6	957.5
125°	1013.8	1068.1	1116.4	1150.6	1168.7	1178.7	1168.7	1150.6	1116.4	1068.1	1013.8
127.5°	1062.9	1121.6	1165.9	1196.8	1214.5	1222.6	1214.5	1196.8	1165.9	1121.6	1062.9
130°	1090.2	1150.6	1194.8	1229.0	1245.1	1253.2	1245.1	1229.0	1194.8	1150.6	1090.2
132.5°	1111.1	1174.7	1220.6	1251.5	1269.2	1277.3	1269.2	1251.5	1220.6	1174.7	1111.1
135°	1136.5	1202.9	1251.1	1281.3	1297.4	1305.5	1297.4	1281.3	1251.1	1202.9	1136.5
137.5°	1158.6	1219.0	1269.2	1301.0	1315.5	1320.7	1315.5	1301.0	1269.2	1219.0	1158.6
140°	1174.7	1227.0	1277.3	1307.5	1323.6	1325.6	1323.6	1307.5	1277.3	1227.0	1174.7
142.5°	1195.6	1236.7	1280.5	1310.7	1326.8	1330.4	1326.8	1310.7	1280.5	1236.7	1195.6
145°	1233.0	1257.2	1287.3	1315.5	1329.6	1333.6	1329.6	1315.5	1287.3	1257.2	1233.0
147.5°	1280.1	1287.8	1303.4	1321.9	1335.6	1338.4	1335.6	1321.9	1303.4	1287.8	1280.1
150°	1315.5	1313.5	1319.5	1331.6	1343.7	1341.7	1343.7	1331.6	1319.5	1313.5	1315.5
152.5°	1355.7	1344.1	1343.7	1349.3	1354.9	1354.5	1354.9	1349.3	1343.7	1344.1	1355.7
155°	1424.1	1402.0	1389.9	1385.9	1385.9	1383.9	1385.9	1385.9	1389.9	1402.0	1424.1
157.5°	1499.4	1468.4	1450.3	1440.6	1437.8	1433.4	1437.8	1440.6	1450.3	1468.4	1499.4
160°	1550.9	1516.7	1498.6	1482.5	1476.4	1470.4	1476.4	1482.5	1498.6	1516.7	1550.9
162.5°	1599.1	1566.5	1546.8	1532.3	1526.3	1517.1	1526.3	1532.3	1546.8	1566.5	1599.1
165°	1677.6	1643.4	1621.3	1609.2	1601.1	1593.1	1601.1	1609.2	1621.3	1643.4	1677.6
167.5°	1756.0	1718.6	1704.1	1690.5	1682.8	1668.3	1682.8	1690.5	1704.1	1718.6	1756.0
170°	1804.3	1770.1	1762.1	1750.0	1735.9	1719.8	1735.9	1750.0	1762.1	1770.1	1804.3
172.5°	1846.1	1823.2	1815.2	1803.1	1798.7	1785.8	1798.7	1803.1	1815.2	1823.2	1846.1
175°	1906.9	1888.8	1888.8	1886.8	1880.7	1868.7	1880.7	1886.8	1888.8	1888.8	1906.9
177.5°	1957.6	1947.9	1954.4	1954.4	1952.7	1941.5	1952.7	1954.4	1954.4	1947.9	1957.6
180°	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4	1991.4



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	7419.8	7419.8	7419.8	7419.8
2.5°	7366.3	7390.8	7403.1	7415.5
5°	7089.1	7109.9	7127.1	7144.3
7.5°	6542.7	6557.0	6551.4	6545.8
10°	6068.8	6069.6	6065.4	6061.2
12.5°	5513.6	5532.7	5516.2	5499.7
15°	4630.1	4668.0	4641.2	4614.5
17.5°	3755.5	3778.9	3781.6	3784.4
20°	3211.4	3231.6	3235.7	3239.9
22.5°	2751.0	2759.5	2766.5	2773.5
25°	2152.3	2170.5	2193.1	2215.6
27.5°	1767.0	1777.7	1778.0	1778.4
30°	1555.5	1566.8	1571.0	1575.1
32.5°	1388.3	1400.3	1397.3	1394.4
35°	1149.5	1159.3	1159.3	1159.3
37.5°	932.0	939.2	940.3	941.3
40°	791.1	796.3	799.3	802.3
42.5°	657.4	659.9	651.9	644.0
45°	456.9	445.0	411.7	378.4
47.5°	266.5	235.8	199.2	162.6
50°	170.3	131.9	103.4	74.9
52.5°	108.2	72.4	58.1	43.9
55°	47.7	28.2	23.5	18.7
57.5°	19.2	12.2	9.6	7.0
60°	8.5	5.1	3.9	2.7
62.5°	3.8	2.0	1.2	0.5
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°	7.2	4.4	2.8	1.2
90°	36.2	22.1	14.1	6.0
92.5°	78.0	54.3	38.2	22.1
95°	156.9	124.7	88.5	62.4
97.5°	249.8	197.9	162.1	119.1
100°	299.7	249.4	215.2	169.0
102.5°	354.4	312.2	265.1	218.8
105°	452.6	400.3	346.0	293.7
107.5°	543.5	486.0	420.8	373.7
110°	601.4	539.1	470.7	428.4



TEST NUMBER: P1427646

CATALOG NUMBER: SQ2W-BBN-K-150U-100D-L935-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	657.8	593.8	523.8	481.5
115°	734.2	663.8	599.4	563.2
117.5°	807.8	735.4	667.4	638.8
120°	852.9	780.5	714.1	692.0
122.5°	889.9	819.1	757.5	748.3
125°	945.4	873.0	820.7	832.8
127.5°	990.5	924.1	891.1	918.0
130°	1017.8	959.5	939.4	977.6
132.5°	1041.9	996.5	987.6	1040.3
135°	1078.2	1052.0	1060.1	1132.5
137.5°	1121.2	1111.1	1138.1	1229.4
140°	1148.6	1154.6	1192.8	1295.4
142.5°	1185.6	1199.6	1249.1	1358.2
145°	1243.1	1273.3	1337.6	1446.3
147.5°	1308.3	1347.3	1426.9	1538.4
150°	1351.7	1402.0	1486.5	1593.1
152.5°	1401.6	1453.5	1538.0	1646.2
155°	1478.4	1536.8	1625.3	1717.8
157.5°	1556.9	1616.4	1700.9	1781.8
160°	1605.2	1669.5	1746.0	1820.4
162.5°	1659.9	1719.4	1786.2	1852.6
165°	1739.9	1788.2	1842.5	1898.8
167.5°	1807.1	1847.3	1890.0	1933.8
170°	1850.6	1882.7	1919.0	1953.2
172.5°	1887.6	1913.3	1939.9	1969.2
175°	1937.1	1951.1	1967.2	1985.3
177.5°	1975.3	1980.1	1984.9	1993.0
180°	1991.4	1991.4	1991.4	1991.4



TEST NUMBER: P1427646  
 CATALOG NUMBER: SQ2W-BBN-K-150U-100D-L935-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