

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



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1428651

Luminaire Tested: SQ2W-WBN-K-150U-075D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428651  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBN-K-150U-075D-L935-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

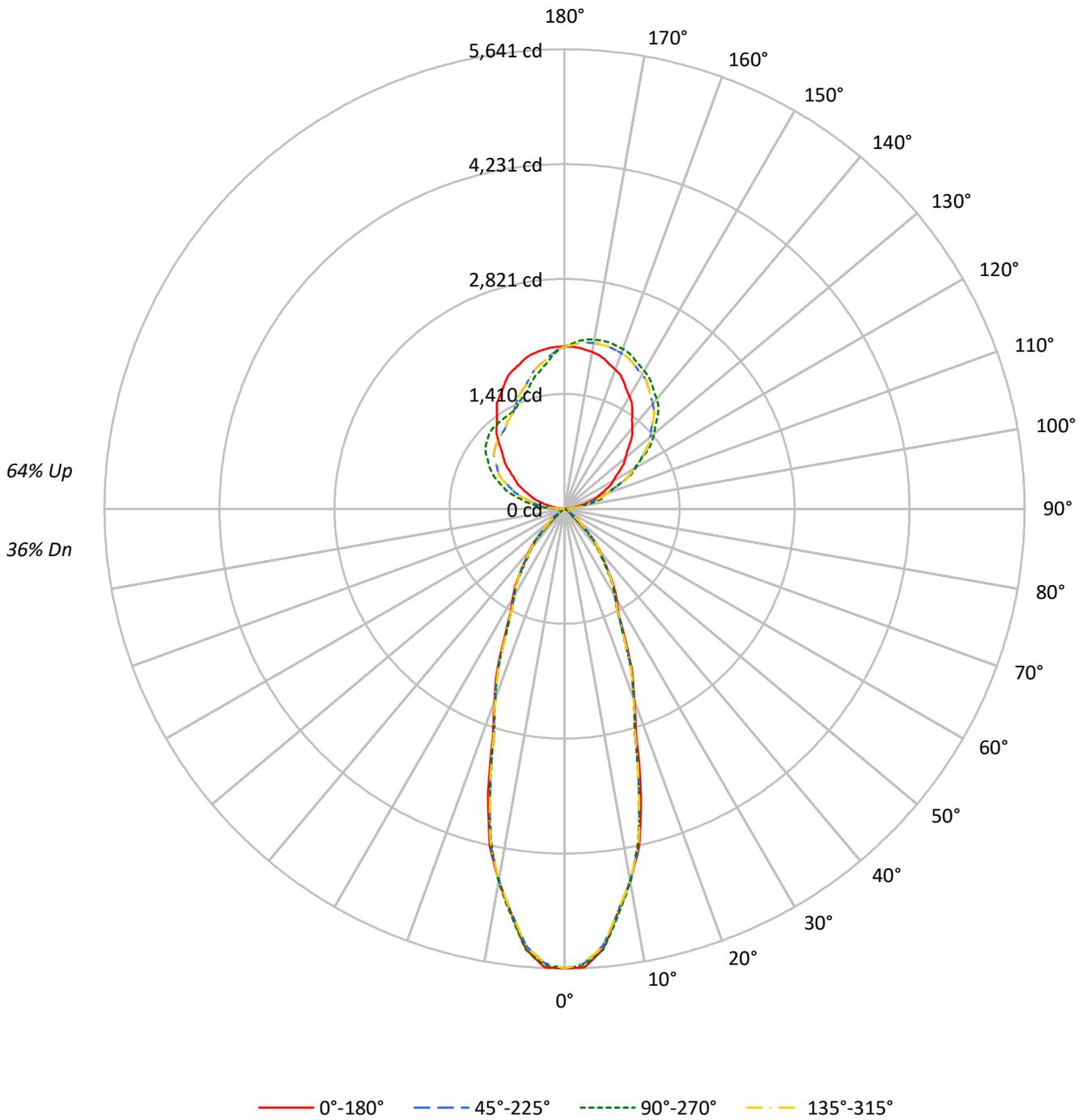
Lumens per Lamp: N/A  
Luminaire Lumens: 9098.3 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 82.7  
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

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CATALOG NUMBER: SQ2W-WBN-K-150U-075D-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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	96	93	89	87	87	84	82	79	69	67	65	54	53	52	41	40	40	34
2	89	83	78	74	81	76	72	68	62	59	57	50	48	46	38	37	36	31
3	83	75	69	64	75	69	64	59	57	53	50	46	44	42	36	35	33	29
4	77	68	61	56	70	62	57	52	52	48	45	43	40	38	34	32	31	27
5	72	62	55	50	65	57	51	47	48	44	41	39	37	35	32	30	29	25
6	67	56	50	45	61	52	46	42	44	40	37	37	34	32	30	28	27	24
7	62	52	45	40	57	48	42	38	41	37	34	34	31	29	28	26	25	22
8	59	48	41	37	54	45	39	35	38	34	31	32	29	27	27	25	23	21
9	55	44	38	34	51	41	36	32	36	32	29	30	27	25	25	23	22	20
10	52	41	35	31	48	39	33	29	34	29	27	29	26	24	24	22	21	19

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

	0°	90°	180°	270°
0°	91077	91077	91077	91077
5°	87937	88034	87937	88034
10°	76010	76191	76010	76191
15°	60484	58812	60484	58812
20°	42968	42710	42968	42710
25°	30912	30092	30912	30092
30°	23619	22929	23619	22929
35°	18541	17751	18541	17751
40°	14047	13181	14047	13181
45°	7859	7014	7859	7014
50°	2765	2439	2765	2439
55°	1689	1604	1689	1604
60°	1292	1195	1292	1195
65°	1184	1108	1184	1108
70°	1133	1039	1133	1039
75°	1060	998	1060	998
80°	930	930	930	930
85°	926	741	926	741

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 9321 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.7	5.4
10°-20°	973.2	10.7
20°-30°	805.9	8.9
30°-40°	579.8	6.4
40°-50°	295.3	3.2
50°-60°	76.8	0.8
60°-70°	31.9	0.4
70°-80°	17.7	0.2
80°-90°	13.5	0.1
90°-100°	158.5	1.7
100°-110°	462.2	5.1
110°-120°	754.2	8.3
120°-130°	957.1	10.5
130°-140°	1024.1	11.3
140°-150°	956.3	10.5
150°-160°	786.9	8.6
160°-170°	527.7	5.8
170°-180°	187.4	2.1
0°-30°	2268.8	24.9
0°-40°	2848.6	31.3
0°-60°	3220.8	35.4
0°-90°	3283.8	36.1
90°-120°	1374.9	15.1
90°-150°	4312.4	47.4
90°-180°	5814.0	63.9
0°-180°	9098.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5641	5641	5641	5641	5641	
5°	5426	5432	5426	5432	5426	489
15°	3618	3518	3618	3518	3618	982
25°	1735	1689	1735	1689	1735	816
35°	941	901	941	901	941	590
45°	344	307	344	307	344	275
55°	60	57	60	57	60	59
65°	31	29	31	29	31	31
75°	17	16	17	16	17	18
85°	5	4	5	4	5	5
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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5632.2	5627.9	5623.6	5604.7	5580.8	5578.9	5598.8	5612.5	5607.5	5602.5	5607.5
5°	5425.8	5422.3	5418.7	5402.5	5382.0	5389.1	5423.8	5447.8	5439.8	5431.8	5439.8
7.5°	4999.7	5002.7	5005.8	4997.5	4985.4	4994.7	5025.3	5046.2	5037.7	5029.1	5037.7
10°	4636.3	4644.3	4652.3	4640.9	4623.1	4636.7	4681.6	4707.8	4677.5	4647.3	4677.5
12.5°	4235.2	4230.0	4224.9	4214.5	4202.4	4200.0	4207.2	4208.4	4191.7	4174.9	4191.7
15°	3618.5	3599.9	3581.2	3552.5	3520.5	3510.0	3521.1	3528.3	3523.4	3518.5	3523.4
17.5°	2914.7	2921.9	2929.1	2909.6	2881.4	2866.7	2865.6	2863.4	2857.9	2852.4	2857.9
20°	2500.8	2503.0	2505.2	2493.1	2476.2	2472.2	2481.1	2487.5	2486.6	2485.8	2486.6
22.5°	2167.7	2168.2	2168.6	2152.6	2131.1	2126.9	2140.0	2147.9	2139.9	2131.9	2139.9
25°	1735.2	1733.9	1732.6	1721.9	1708.1	1697.9	1691.2	1686.5	1687.9	1689.2	1687.9
27.5°	1423.0	1417.5	1412.0	1402.9	1392.5	1389.6	1394.0	1396.6	1393.3	1390.0	1393.3
30°	1266.9	1262.4	1258.0	1248.9	1238.2	1234.2	1236.9	1237.9	1233.9	1229.9	1233.9
32.5°	1126.8	1127.0	1127.1	1118.9	1107.9	1101.8	1100.5	1098.8	1095.9	1093.0	1095.9
35°	940.7	943.3	946.0	939.3	929.5	921.3	914.6	908.6	904.6	900.6	904.6
37.5°	774.5	777.0	779.5	773.9	765.7	756.6	746.9	738.7	735.3	731.9	735.3
40°	666.5	668.2	670.0	666.1	660.4	651.7	640.1	630.8	628.1	625.4	628.1
42.5°	548.8	556.3	563.7	561.3	555.5	547.2	536.3	526.7	520.8	515.0	520.8
45°	344.2	367.8	391.4	401.9	408.2	405.3	393.3	375.7	341.5	307.2	341.5
47.5°	174.1	206.8	239.4	262.9	283.2	276.7	243.4	209.9	176.3	142.7	176.3
50°	110.1	132.8	155.4	184.1	214.8	208.1	164.1	127.3	112.2	97.1	112.2
52.5°	84.5	96.1	107.8	135.0	167.5	164.4	125.7	94.6	86.2	77.9	86.2
55°	60.0	64.5	68.9	84.1	102.7	101.6	80.7	64.2	60.6	57.0	60.6
57.5°	46.4	48.9	51.4	57.0	63.7	63.1	55.2	48.7	46.5	44.2	46.5
60°	40.0	41.8	43.6	46.4	49.5	49.0	45.0	41.5	39.2	37.0	39.2
62.5°	36.0	37.1	38.2	39.4	40.8	40.1	37.6	35.4	34.6	33.8	34.6
65°	31.0	31.5	31.9	32.0	32.0	31.6	30.7	29.9	29.5	29.0	29.5
67.5°	26.4	26.9	27.3	27.4	27.3	27.0	26.6	26.1	25.7	25.2	25.7
70°	24.0	24.5	24.9	24.7	24.2	23.8	23.3	22.9	22.5	22.0	22.5
72.5°	20.8	21.3	21.7	21.5	21.0	20.8	20.7	20.5	20.1	19.6	20.1
75°	17.0	17.0	17.0	17.0	17.0	16.8	16.3	16.0	16.0	16.0	16.0
77.5°	13.2	13.3	13.4	13.1	12.6	12.4	12.4	12.3	12.0	11.6	12.0
80°	10.0	10.5	10.9	10.7	10.2	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	8.4	8.5	8.6	8.3	7.8	7.6	7.6	7.6	7.6	7.6	7.6
85°	5.0	5.0	5.0	4.7	4.2	4.2	4.7	4.9	4.4	4.0	4.4
87.5°	2.8	4.4	6.4	8.0	9.2	9.6	9.6	10.0	10.5	10.5	10.5
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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5612.5	5598.8	5578.9	5580.8	5604.7	5623.6	5627.9	5632.2	5627.9	5623.6	5604.7
5°	5447.8	5423.8	5389.1	5382.0	5402.5	5418.7	5422.3	5425.8	5422.3	5418.7	5402.5
7.5°	5046.2	5025.3	4994.7	4985.4	4997.5	5005.8	5002.7	4999.7	5002.7	5005.8	4997.5
10°	4707.8	4681.6	4636.7	4623.1	4640.9	4652.3	4644.3	4636.3	4644.3	4652.3	4640.9
12.5°	4208.4	4207.2	4200.0	4202.4	4214.5	4224.9	4230.0	4235.2	4230.0	4224.9	4214.5
15°	3528.3	3521.1	3510.0	3520.5	3552.5	3581.2	3599.9	3618.5	3599.9	3581.2	3552.5
17.5°	2863.4	2865.6	2866.7	2881.4	2909.6	2929.1	2921.9	2914.7	2921.9	2929.1	2909.6
20°	2487.5	2481.1	2472.2	2476.2	2493.1	2505.2	2503.0	2500.8	2503.0	2505.2	2493.1
22.5°	2147.9	2140.0	2126.9	2131.1	2152.6	2168.6	2168.2	2167.7	2168.2	2168.6	2152.6
25°	1686.5	1691.2	1697.9	1708.1	1721.9	1732.6	1733.9	1735.2	1733.9	1732.6	1721.9
27.5°	1396.6	1394.0	1389.6	1392.5	1402.9	1412.0	1417.5	1423.0	1417.5	1412.0	1402.9
30°	1237.9	1236.9	1234.2	1238.2	1248.9	1258.0	1262.4	1266.9	1262.4	1258.0	1248.9
32.5°	1098.8	1100.5	1101.8	1107.9	1118.9	1127.1	1127.0	1126.8	1127.0	1127.1	1118.9
35°	908.6	914.6	921.3	929.5	939.3	946.0	943.3	940.7	943.3	946.0	939.3
37.5°	738.7	746.9	756.6	765.7	773.9	779.5	777.0	774.5	777.0	779.5	773.9
40°	630.8	640.1	651.7	660.4	666.1	670.0	668.2	666.5	668.2	670.0	666.1
42.5°	526.7	536.3	547.2	555.5	561.3	563.7	556.3	548.8	556.3	563.7	561.3
45°	375.7	393.3	405.3	408.2	401.9	391.4	367.8	344.2	367.8	391.4	401.9
47.5°	209.9	243.4	276.7	283.2	262.9	239.4	206.8	174.1	206.8	239.4	262.9
50°	127.3	164.1	208.1	214.8	184.1	155.4	132.8	110.1	132.8	155.4	184.1
52.5°	94.6	125.7	164.4	167.5	135.0	107.8	96.1	84.5	96.1	107.8	135.0
55°	64.2	80.7	101.6	102.7	84.1	68.9	64.5	60.0	64.5	68.9	84.1
57.5°	48.7	55.2	63.1	63.7	57.0	51.4	48.9	46.4	48.9	51.4	57.0
60°	41.5	45.0	49.0	49.5	46.4	43.6	41.8	40.0	41.8	43.6	46.4
62.5°	35.4	37.6	40.1	40.8	39.4	38.2	37.1	36.0	37.1	38.2	39.4
65°	29.9	30.7	31.6	32.0	32.0	31.9	31.5	31.0	31.5	31.9	32.0
67.5°	26.1	26.6	27.0	27.3	27.4	27.3	26.9	26.4	26.9	27.3	27.4
70°	22.9	23.3	23.8	24.2	24.7	24.9	24.5	24.0	24.5	24.9	24.7
72.5°	20.5	20.7	20.8	21.0	21.5	21.7	21.3	20.8	21.3	21.7	21.5
75°	16.0	16.3	16.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
77.5°	12.3	12.4	12.4	12.6	13.1	13.4	13.3	13.2	13.3	13.4	13.1
80°	10.0	10.0	10.0	10.2	10.7	10.9	10.5	10.0	10.5	10.9	10.7
82.5°	7.6	7.6	7.6	7.8	8.3	8.6	8.5	8.4	8.5	8.6	8.3
85°	4.9	4.7	4.2	4.2	4.7	5.0	5.0	5.0	5.0	5.0	4.7
87.5°	10.0	9.6	9.6	9.2	8.0	6.4	4.4	2.8	4.4	6.0	8.8
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: P1428651

CATALOG NUMBER: SQ2W-WBN-K-150U-075D-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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5580.8	5578.9	5598.8	5612.5	5607.5	5602.5	5607.5	5612.5	5598.8	5578.9	5580.8
5°	5382.0	5389.1	5423.8	5447.8	5439.8	5431.8	5439.8	5447.8	5423.8	5389.1	5382.0
7.5°	4985.4	4994.7	5025.3	5046.2	5037.7	5029.1	5037.7	5046.2	5025.3	4994.7	4985.4
10°	4623.1	4636.7	4681.6	4707.8	4677.5	4647.3	4677.5	4707.8	4681.6	4636.7	4623.1
12.5°	4202.4	4200.0	4207.2	4208.4	4191.7	4174.9	4191.7	4208.4	4207.2	4200.0	4202.4
15°	3520.5	3510.0	3521.1	3528.3	3523.4	3518.5	3523.4	3528.3	3521.1	3510.0	3520.5
17.5°	2881.4	2866.7	2865.6	2863.4	2857.9	2852.4	2857.9	2863.4	2865.6	2866.7	2881.4
20°	2476.2	2472.2	2481.1	2487.5	2486.6	2485.8	2486.6	2487.5	2481.1	2472.2	2476.2
22.5°	2131.1	2126.9	2140.0	2147.9	2139.9	2131.9	2139.9	2147.9	2140.0	2126.9	2131.1
25°	1708.1	1697.9	1691.2	1686.5	1687.9	1689.2	1687.9	1686.5	1691.2	1697.9	1708.1
27.5°	1392.5	1389.6	1394.0	1396.6	1393.3	1390.0	1393.3	1396.6	1394.0	1389.6	1392.5
30°	1238.2	1234.2	1236.9	1237.9	1233.9	1229.9	1233.9	1237.9	1236.9	1234.2	1238.2
32.5°	1107.9	1101.8	1100.5	1098.8	1095.9	1093.0	1095.9	1098.8	1100.5	1101.8	1107.9
35°	929.5	921.3	914.6	908.6	904.6	900.6	904.6	908.6	914.6	921.3	929.5
37.5°	765.7	756.6	746.9	738.7	735.3	731.9	735.3	738.7	746.9	756.6	765.7
40°	660.4	651.7	640.1	630.8	628.1	625.4	628.1	630.8	640.1	651.7	660.4
42.5°	555.5	547.2	536.3	526.7	520.8	515.0	520.8	526.7	536.3	547.2	555.5
45°	408.2	405.3	393.3	375.7	341.5	307.2	341.5	375.7	393.3	405.3	408.2
47.5°	283.2	276.7	243.4	209.9	176.3	142.7	176.3	209.9	243.4	276.7	283.2
50°	214.8	208.1	164.1	127.3	112.2	97.1	112.2	127.3	164.1	208.1	214.8
52.5°	167.5	164.4	125.7	94.6	86.2	77.9	86.2	94.6	125.7	164.4	167.5
55°	102.7	101.6	80.7	64.2	60.6	57.0	60.6	64.2	80.7	101.6	102.7
57.5°	63.7	63.1	55.2	48.7	46.5	44.2	46.5	48.7	55.2	63.1	63.7
60°	49.5	49.0	45.0	41.5	39.2	37.0	39.2	41.5	45.0	49.0	49.5
62.5°	40.8	40.1	37.6	35.4	34.6	33.8	34.6	35.4	37.6	40.1	40.8
65°	32.0	31.6	30.7	29.9	29.5	29.0	29.5	29.9	30.7	31.6	32.0
67.5°	27.3	27.0	26.6	26.1	25.7	25.2	25.7	26.1	26.6	27.0	27.3
70°	24.2	23.8	23.3	22.9	22.5	22.0	22.5	22.9	23.3	23.8	24.2
72.5°	21.0	20.8	20.7	20.5	20.1	19.6	20.1	20.5	20.7	20.8	21.0
75°	17.0	16.8	16.3	16.0	16.0	16.0	16.0	16.0	16.3	16.8	17.0
77.5°	12.6	12.4	12.4	12.3	12.0	11.6	12.0	12.3	12.4	12.4	12.6
80°	10.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.2
82.5°	7.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.8
85°	4.2	4.2	4.7	4.9	4.4	4.0	4.4	4.9	4.7	4.2	4.2
87.5°	10.9	13.7	16.5	18.1	19.7	18.9	19.7	18.1	16.5	13.7	10.9
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



TEST NUMBER: P1428651

CATALOG NUMBER: SQ2W-WBN-K-150U-075D-L935-UNV-STD-W-WM-4

**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



TEST NUMBER: P1428651

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	5641.0	5641.0	5641.0	5641.0
2.5°	5604.7	5623.6	5627.9	5632.2
5°	5402.5	5418.7	5422.3	5425.8
7.5°	4997.5	5005.8	5002.7	4999.7
10°	4640.9	4652.3	4644.3	4636.3
12.5°	4214.5	4224.9	4230.0	4235.2
15°	3552.5	3581.2	3599.9	3618.5
17.5°	2909.6	2929.1	2921.9	2914.7
20°	2493.1	2505.2	2503.0	2500.8
22.5°	2152.6	2168.6	2168.2	2167.7
25°	1721.9	1732.6	1733.9	1735.2
27.5°	1402.9	1412.0	1417.5	1423.0
30°	1248.9	1258.0	1262.4	1266.9
32.5°	1118.9	1127.1	1127.0	1126.8
35°	939.3	946.0	943.3	940.7
37.5°	773.9	779.5	777.0	774.5
40°	666.1	670.0	668.2	666.5
42.5°	561.3	563.7	556.3	548.8
45°	401.9	391.4	367.8	344.2
47.5°	262.9	239.4	206.8	174.1
50°	184.1	155.4	132.8	110.1
52.5°	135.0	107.8	96.1	84.5
55°	84.1	68.9	64.5	60.0
57.5°	57.0	51.4	48.9	46.4
60°	46.4	43.6	41.8	40.0
62.5°	39.4	38.2	37.1	36.0
65°	32.0	31.9	31.5	31.0
67.5°	27.4	27.3	26.9	26.4
70°	24.7	24.9	24.5	24.0
72.5°	21.5	21.7	21.3	20.8
75°	17.0	17.0	17.0	17.0
77.5°	13.1	13.4	13.3	13.2
80°	10.7	10.9	10.5	10.0
82.5°	8.3	8.6	8.5	8.4
85°	4.7	5.0	5.0	5.0
87.5°	8.8	6.0	4.4	2.8
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: P1428651

CATALOG NUMBER: SQ2W-WBN-K-150U-075D-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: P1428651  
 CATALOG NUMBER: SQ2W-WBN-K-150U-075D-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	0.32	0.95	1.42	2.02	3.49	0.00	0.58	1.05	1.65	3.12
	3H	1.54	2.10	2.65	3.19	4.68	1.15	1.71	2.26	2.80	4.29
	4H	2.06	2.59	3.17	3.68	5.17	1.66	2.20	2.78	3.28	4.77
	6H	2.41	2.90	3.53	3.98	5.49	1.99	2.48	3.12	3.57	5.07
	8H	2.55	3.01	3.68	4.12	5.61	2.13	2.59	3.26	3.70	5.19
	12H	2.64	3.08	3.77	4.18	5.70	2.20	2.64	3.33	3.73	5.25
4H	2H	0.63	1.16	1.75	2.25	3.74	0.32	0.86	1.45	1.94	3.44
	3H	2.13	2.57	3.25	3.68	5.18	1.79	2.23	2.91	3.34	4.84
	4H	2.77	3.18	3.90	4.28	5.80	2.42	2.82	3.55	3.93	5.45
	6H	3.26	3.60	4.39	4.73	6.25	2.87	3.22	4.01	4.34	5.86
	8H	3.47	3.79	4.60	4.91	6.44	3.07	3.39	4.20	4.51	6.04
	12H	3.60	3.89	4.75	5.02	6.56	3.17	3.46	4.32	4.59	6.13
8H	4H	2.93	3.25	4.06	4.37	5.90	2.62	2.94	3.75	4.05	5.58
	6H	3.57	3.83	4.72	4.99	6.52	3.21	3.47	4.36	4.63	6.16
	8H	3.89	4.12	5.05	5.26	6.80	3.50	3.73	4.66	4.87	6.42
	12H	4.11	4.31	5.27	5.45	7.03	3.70	3.90	4.86	5.04	6.62
12H	4H	2.91	3.20	4.05	4.33	5.86	2.60	2.89	3.75	4.02	5.56
	6H	3.60	3.83	4.76	4.97	6.52	3.26	3.49	4.42	4.63	6.18
	8H	3.95	4.15	5.11	5.29	6.87	3.58	3.78	4.74	4.92	6.50