

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: P1427642

Luminaire Tested: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427642  
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-075D-L930-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 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

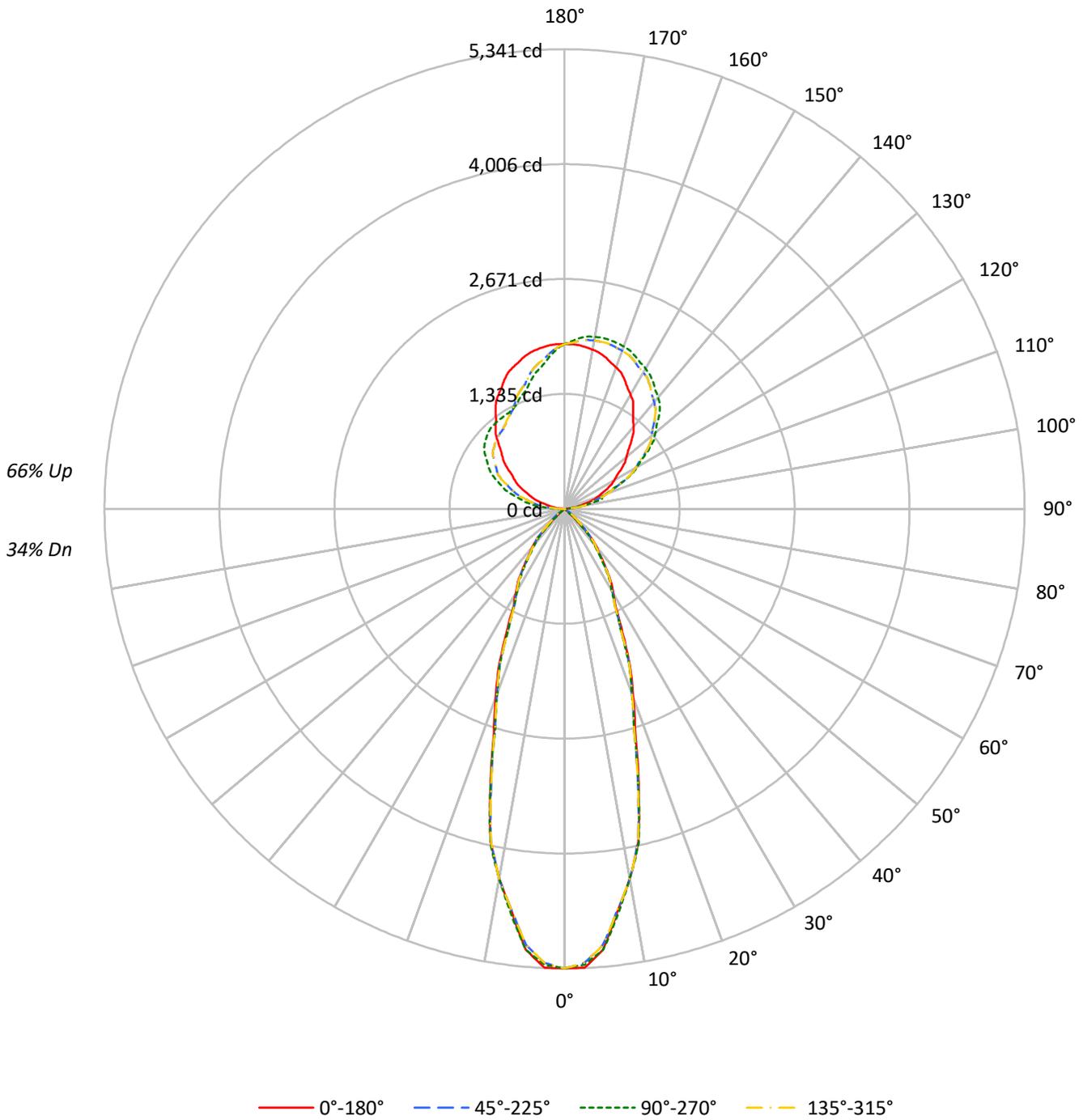
Lumens per Lamp: N/A  
Luminaire Lumens: 8487.3 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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-BBN-K-150U-075D-L930-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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34				
1	96	92	89	86	87	84	81	79	68	66	64	53	52	51	39	39	38	32				
2	89	83	78	74	80	75	71	68	62	59	56	49	47	46	37	36	35	30				
3	82	75	69	64	75	68	63	59	56	53	50	45	43	41	35	34	33	28				
4	77	68	61	56	70	62	57	52	52	48	45	42	39	37	33	31	30	26				
5	71	62	55	50	65	57	51	47	48	43	40	39	36	34	31	29	28	25				
6	67	56	50	45	61	52	46	42	44	40	37	36	34	31	29	27	26	23				
7	62	52	45	40	57	48	42	38	41	37	34	34	31	29	28	26	25	22				
8	58	48	41	37	54	45	39	35	38	34	31	32	29	27	26	24	23	21				
9	55	45	38	34	50	41	36	32	36	31	29	30	27	25	25	23	22	20				
10	52	41	35	31	48	39	33	30	33	29	27	28	26	23	24	22	21	19				

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

	0°	90°	180°	270°
0°	86235	86235	86235	86235
5°	83351	83398	83351	83398
10°	71533	71533	71533	71533
15°	55523	55394	55523	55394
20°	40071	39212	40071	39212
25°	28413	27333	28413	27333
30°	21140	20403	21140	20403
35°	16448	15689	16448	15689
40°	12172	11118	12172	11118
45°	6220	5012	6220	5012
50°	1354	992	1354	992
55°	380	298	380	298
60°	61	32	61	32
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: 7587 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.9	5.4
10°-20°	910.6	10.7
20°-30°	734.5	8.7
30°-40°	510.3	6.0
40°-50°	235.7	2.8
50°-60°	33.0	0.4
60°-70°	1.1	0.0
70°-80°	0.0	0.0
80°-90°	10.2	0.1
90°-100°	152.4	1.8
100°-110°	444.5	5.2
110°-120°	725.4	8.5
120°-130°	920.5	10.8
130°-140°	985.0	11.6
140°-150°	919.8	10.8
150°-160°	756.8	8.9
160°-170°	507.6	6.0
170°-180°	180.2	2.1
0°-30°	2107.0	24.8
0°-40°	2617.3	30.8
0°-60°	2886.0	34.0
0°-90°	2897.3	34.1
90°-120°	1322.4	15.6
90°-150°	4147.7	48.9
90°-180°	5592.0	65.9
0°-180°	8487.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5341	5341	5341	5341	5341	
5°	5143	5146	5143	5146	5143	462
15°	3322	3314	3322	3314	3322	914
25°	1595	1534	1595	1534	1595	747
35°	834	796	834	796	834	522
45°	272	220	272	220	272	220
55°	14	11	14	11	14	17
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	6	43	6	83	6	5
95°	60	44	60	261	60	72
105°	282	453	282	623	282	300
115°	542	751	542	925	542	534
125°	801	1190	801	1134	801	717
135°	1089	1557	1089	1256	1089	842
145°	1391	1795	1391	1283	1391	870
155°	1652	1950	1652	1331	1652	759
165°	1826	2033	1826	1532	1826	514
175°	1910	1991	1910	1797	1910	181
180°	1915	1915	1915	1915	1915	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1
2.5°	5338.0	5329.1	5320.2	5302.6	5282.1	5281.2	5300.0	5312.7	5306.9	5301.1	5306.9
5°	5142.8	5130.4	5118.0	5103.0	5087.2	5093.2	5121.0	5142.3	5144.0	5145.7	5144.0
7.5°	4712.0	4716.0	4720.0	4709.8	4694.7	4702.6	4733.4	4755.6	4752.3	4749.0	4752.3
10°	4363.2	4366.2	4369.2	4368.6	4366.9	4371.2	4381.5	4386.3	4374.7	4363.2	4374.7
12.5°	3958.9	3970.8	3982.7	3969.0	3946.7	3943.3	3958.7	3971.5	3976.4	3981.2	3976.4
15°	3321.7	3341.0	3360.2	3332.9	3290.2	3279.0	3299.6	3314.9	3314.4	3314.0	3314.4
17.5°	2724.2	2722.2	2720.2	2703.4	2681.6	2672.6	2676.4	2679.0	2677.7	2676.4	2677.7
20°	2332.2	2329.2	2326.2	2311.7	2293.3	2282.6	2279.6	2277.9	2280.0	2282.2	2280.0
22.5°	1996.5	1991.4	1986.4	1980.3	1973.9	1967.0	1959.5	1954.7	1957.5	1960.3	1957.5
25°	1594.9	1578.7	1562.4	1549.4	1537.4	1536.5	1546.8	1552.2	1543.3	1534.3	1543.3
27.5°	1280.2	1279.9	1279.7	1272.0	1261.8	1257.2	1258.4	1259.6	1261.3	1263.0	1261.3
30°	1133.9	1130.9	1127.9	1119.7	1109.9	1105.2	1105.6	1104.7	1099.5	1094.4	1099.5
32.5°	1003.7	1005.9	1008.0	999.4	987.1	979.9	977.6	974.5	969.4	964.3	969.4
35°	834.5	834.5	834.5	827.5	818.0	810.1	803.7	798.6	797.3	796.0	797.3
37.5°	677.6	676.9	676.1	670.9	664.2	656.3	647.3	639.6	636.3	633.0	636.3
40°	577.5	575.4	573.2	569.5	565.2	557.5	546.4	536.9	532.2	527.5	532.2
42.5°	463.6	469.3	475.0	473.2	469.0	461.3	450.1	440.0	432.9	425.8	432.9
45°	272.4	296.4	320.3	328.9	332.3	327.6	314.7	295.6	257.5	219.5	257.5
47.5°	117.0	143.4	169.7	191.9	212.6	206.0	172.2	139.0	107.3	75.7	107.3
50°	53.9	74.4	95.0	122.6	152.5	146.3	104.0	68.6	54.0	39.5	54.0
52.5°	31.6	41.8	52.1	77.9	108.9	106.1	69.6	40.2	32.5	24.8	32.5
55°	13.5	16.9	20.3	34.3	51.9	51.0	31.8	16.6	13.6	10.6	13.6
57.5°	5.0	6.9	8.8	13.8	19.9	19.5	12.6	7.1	5.6	4.0	5.6
60°	1.9	2.8	3.6	6.1	9.1	8.9	5.5	2.7	1.8	1.0	1.8
62.5°	0.4	0.9	1.4	2.8	4.4	4.3	2.6	1.2	0.7	0.2	0.7
65°	0.0	0.0	0.0	0.3	0.7	0.7	0.3	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	2.7	4.6	6.2	7.4	7.7	7.7	8.1	8.5	8.5	8.5
90°	5.8	13.5	23.2	31.0	36.8	38.7	38.7	40.6	42.6	42.6	42.6
92.5°	21.3	33.7	34.0	34.0	41.4	44.9	48.0	48.4	50.3	50.3	50.3
95°	60.0	65.8	98.7	96.7	65.8	52.2	44.5	44.5	44.5	44.5	44.5
97.5°	114.5	123.0	128.5	172.2	181.9	175.7	143.2	120.3	107.6	101.8	107.6
100°	162.5	166.4	178.0	179.9	228.3	274.7	251.5	222.5	212.8	207.0	212.8
102.5°	210.5	212.8	230.6	238.7	250.0	276.3	356.7	347.8	341.3	340.1	341.3
105°	282.5	284.4	317.3	332.8	340.5	340.5	338.6	377.3	439.2	452.7	439.2
107.5°	359.5	368.4	407.0	448.4	457.3	459.7	449.6	443.8	441.5	443.0	441.5
110°	412.1	425.6	472.1	524.3	537.8	541.7	537.8	532.0	528.2	528.2	528.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	463.2	482.9	535.5	595.5	618.3	629.9	621.4	617.2	613.3	616.4	613.3
115°	541.7	570.7	640.4	702.3	748.7	754.5	752.6	752.6	750.6	750.6	750.6
117.5°	614.4	660.9	739.0	811.0	864.8	880.3	888.0	885.7	883.4	887.2	883.4
120°	665.5	719.7	808.7	889.9	942.2	965.4	973.1	969.3	973.1	969.3	973.1
122.5°	719.7	786.2	873.7	958.0	1019.6	1045.9	1055.2	1055.9	1056.7	1054.4	1056.7
125°	800.9	882.2	984.7	1071.8	1135.6	1166.6	1174.3	1176.3	1180.1	1189.8	1180.1
127.5°	883.0	975.1	1087.7	1171.6	1237.0	1274.5	1286.5	1290.8	1298.9	1303.2	1298.9
130°	940.2	1044.7	1158.8	1238.2	1302.0	1342.6	1363.9	1369.7	1379.4	1377.5	1379.4
132.5°	1000.6	1109.7	1225.4	1307.8	1367.0	1410.7	1428.9	1445.6	1449.0	1451.8	1449.0
135°	1089.2	1207.2	1323.3	1404.5	1460.7	1503.2	1526.4	1541.9	1551.6	1557.4	1551.6
137.5°	1182.5	1307.0	1418.5	1490.8	1547.3	1584.1	1610.4	1626.6	1636.7	1641.3	1636.7
140°	1245.9	1365.9	1474.2	1549.6	1599.9	1636.7	1659.9	1679.3	1690.9	1690.9	1690.9
142.5°	1306.3	1424.7	1529.9	1605.4	1649.5	1683.1	1707.9	1722.6	1735.8	1735.8	1735.8
145°	1391.0	1509.0	1605.8	1681.2	1718.0	1748.9	1776.0	1787.6	1795.3	1795.3	1795.3
147.5°	1479.6	1584.1	1672.3	1744.7	1775.6	1812.0	1833.3	1842.6	1852.2	1848.0	1852.2
150°	1532.2	1629.0	1714.1	1781.8	1812.8	1847.6	1868.9	1876.6	1886.3	1880.5	1886.3
152.5°	1583.3	1675.4	1752.8	1815.9	1842.2	1877.0	1901.4	1909.1	1915.7	1911.4	1915.7
155°	1652.2	1733.4	1805.0	1863.1	1886.3	1919.2	1942.4	1952.1	1959.8	1950.1	1959.8
157.5°	1713.7	1783.7	1846.0	1899.4	1924.2	1952.4	1974.1	1986.1	1993.8	1989.6	1993.8
160°	1750.8	1814.7	1870.8	1921.1	1944.3	1969.5	1992.7	2006.2	2014.0	2008.2	2014.0
162.5°	1781.8	1839.5	1892.5	1938.1	1958.2	1980.3	2008.2	2020.2	2027.9	2020.5	2027.9
165°	1826.3	1872.7	1919.2	1957.9	1975.3	1992.7	2021.7	2035.2	2041.0	2033.3	2041.0
167.5°	1860.0	1895.6	1933.1	1966.4	1979.1	1996.2	2025.2	2036.4	2043.8	2034.1	2043.8
170°	1878.5	1909.5	1942.4	1969.5	1979.1	1994.6	2023.6	2033.3	2039.1	2029.4	2039.1
172.5°	1894.0	1917.2	1943.9	1967.9	1972.9	1985.3	2012.8	2022.5	2026.7	2018.6	2026.7
175°	1909.5	1923.0	1942.4	1957.9	1955.9	1963.7	1986.9	1994.6	2002.4	1990.7	2002.4
177.5°	1916.8	1923.0	1929.2	1938.5	1932.3	1932.3	1949.3	1954.0	1955.5	1949.3	1955.5
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1
2.5°	5312.7	5300.0	5281.2	5282.1	5302.6	5320.2	5329.1	5338.0	5329.1	5320.2	5302.6
5°	5142.3	5121.0	5093.2	5087.2	5103.0	5118.0	5130.4	5142.8	5130.4	5118.0	5103.0
7.5°	4755.6	4733.4	4702.6	4694.7	4709.8	4720.0	4716.0	4712.0	4716.0	4720.0	4709.8
10°	4386.3	4381.5	4371.2	4366.9	4368.6	4369.2	4366.2	4363.2	4366.2	4369.2	4368.6
12.5°	3971.5	3958.7	3943.3	3946.7	3969.0	3982.7	3970.8	3958.9	3970.8	3982.7	3969.0
15°	3314.9	3299.6	3279.0	3290.2	3332.9	3360.2	3341.0	3321.7	3341.0	3360.2	3332.9
17.5°	2679.0	2676.4	2672.6	2681.6	2703.4	2720.2	2722.2	2724.2	2722.2	2720.2	2703.4
20°	2277.9	2279.6	2282.6	2293.3	2311.7	2326.2	2329.2	2332.2	2329.2	2326.2	2311.7
22.5°	1954.7	1959.5	1967.0	1973.9	1980.3	1986.4	1991.4	1996.5	1991.4	1986.4	1980.3
25°	1552.2	1546.8	1536.5	1537.4	1549.4	1562.4	1578.7	1594.9	1578.7	1562.4	1549.4
27.5°	1259.6	1258.4	1257.2	1261.8	1272.0	1279.7	1279.9	1280.2	1279.9	1279.7	1272.0
30°	1104.7	1105.6	1105.2	1109.9	1119.7	1127.9	1130.9	1133.9	1130.9	1127.9	1119.7
32.5°	974.5	977.6	979.9	987.1	999.4	1008.0	1005.9	1003.7	1005.9	1008.0	999.4
35°	798.6	803.7	810.1	818.0	827.5	834.5	834.5	834.5	834.5	834.5	827.5
37.5°	639.6	647.3	656.3	664.2	670.9	676.1	676.9	677.6	676.9	676.1	670.9
40°	536.9	546.4	557.5	565.2	569.5	573.2	575.4	577.5	575.4	573.2	569.5
42.5°	440.0	450.1	461.3	469.0	473.2	475.0	469.3	463.6	469.3	475.0	473.2
45°	295.6	314.7	327.6	332.3	328.9	320.3	296.4	272.4	296.4	320.3	328.9
47.5°	139.0	172.2	206.0	212.6	191.9	169.7	143.4	117.0	143.4	169.7	191.9
50°	68.6	104.0	146.3	152.5	122.6	95.0	74.4	53.9	74.4	95.0	122.6
52.5°	40.2	69.6	106.1	108.9	77.9	52.1	41.8	31.6	41.8	52.1	77.9
55°	16.6	31.8	51.0	51.9	34.3	20.3	16.9	13.5	16.9	20.3	34.3
57.5°	7.1	12.6	19.5	19.9	13.8	8.8	6.9	5.0	6.9	8.8	13.8
60°	2.7	5.5	8.9	9.1	6.1	3.6	2.8	1.9	2.8	3.6	6.1
62.5°	1.2	2.6	4.3	4.4	2.8	1.4	0.9	0.4	0.9	1.4	2.8
65°	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3
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°	8.1	7.7	7.7	7.4	6.2	4.6	2.7	1.2	2.7	4.3	7.0
90°	40.6	38.7	38.7	36.8	31.0	23.2	13.5	5.8	13.5	21.3	34.8
92.5°	48.4	48.0	44.9	41.4	34.0	34.0	33.7	21.3	36.8	52.2	75.1
95°	44.5	44.5	52.2	65.8	96.7	98.7	65.8	60.0	85.1	119.9	150.9
97.5°	120.3	143.2	175.7	181.9	172.2	128.5	123.0	114.5	155.9	190.4	240.3
100°	222.5	251.5	274.7	228.3	179.9	178.0	166.4	162.5	207.0	239.9	288.3
102.5°	347.8	356.7	276.3	250.0	238.7	230.6	212.8	210.5	255.0	300.3	340.9
105°	377.3	338.6	340.5	340.5	332.8	317.3	284.4	282.5	332.8	385.0	435.3
107.5°	443.8	449.6	459.7	457.3	448.4	407.0	368.4	359.5	404.7	467.4	522.7
110°	532.0	537.8	541.7	537.8	524.3	472.1	425.6	412.1	452.7	518.5	578.5



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	617.2	621.4	629.9	618.3	595.5	535.5	482.9	463.2	503.8	571.1	632.6
115°	752.6	752.6	754.5	748.7	702.3	640.4	570.7	541.7	576.5	638.4	706.1
117.5°	885.7	888.0	880.3	864.8	811.0	739.0	660.9	614.4	641.9	707.3	777.0
120°	969.3	973.1	965.4	942.2	889.9	808.7	719.7	665.5	686.8	750.6	820.3
122.5°	1055.9	1055.2	1045.9	1019.6	958.0	873.7	786.2	719.7	728.6	787.8	855.9
125°	1176.3	1174.3	1166.6	1135.6	1071.8	984.7	882.2	800.9	789.3	839.6	909.3
127.5°	1290.8	1286.5	1274.5	1237.0	1171.6	1087.7	975.1	883.0	857.0	888.8	952.6
130°	1369.7	1363.9	1342.6	1302.0	1238.2	1158.8	1044.7	940.2	903.5	922.8	978.9
132.5°	1445.6	1428.9	1410.7	1367.0	1307.8	1225.4	1109.7	1000.6	949.9	958.4	1002.1
135°	1541.9	1526.4	1503.2	1460.7	1404.5	1323.3	1207.2	1089.2	1019.6	1011.8	1037.0
137.5°	1626.6	1610.4	1584.1	1547.3	1490.8	1418.5	1307.0	1182.5	1094.6	1068.7	1078.4
140°	1679.3	1659.9	1636.7	1599.9	1549.6	1474.2	1365.9	1245.9	1147.2	1110.5	1104.7
142.5°	1722.6	1707.9	1683.1	1649.5	1605.4	1529.9	1424.7	1306.3	1201.4	1153.8	1140.3
145°	1787.6	1776.0	1748.9	1718.0	1681.2	1605.8	1509.0	1391.0	1286.5	1224.6	1195.6
147.5°	1842.6	1833.3	1812.0	1775.6	1744.7	1672.3	1584.1	1479.6	1372.4	1295.8	1258.3
150°	1876.6	1868.9	1847.6	1812.8	1781.8	1714.1	1629.0	1532.2	1429.7	1348.4	1300.1
152.5°	1909.1	1901.4	1877.0	1842.2	1815.9	1752.8	1675.4	1583.3	1479.2	1398.0	1348.1
155°	1952.1	1942.4	1919.2	1886.3	1863.1	1805.0	1733.4	1652.2	1563.2	1478.1	1422.0
157.5°	1986.1	1974.1	1952.4	1924.2	1899.4	1846.0	1783.7	1713.7	1635.9	1554.7	1497.4
160°	2006.2	1992.7	1969.5	1944.3	1921.1	1870.8	1814.7	1750.8	1679.3	1605.8	1543.8
162.5°	2020.2	2008.2	1980.3	1958.2	1938.1	1892.5	1839.5	1781.8	1718.0	1653.7	1596.5
165°	2035.2	2021.7	1992.7	1975.3	1957.9	1919.2	1872.7	1826.3	1772.1	1719.9	1673.5
167.5°	2036.4	2025.2	1996.2	1979.1	1966.4	1933.1	1895.6	1860.0	1817.8	1776.8	1738.1
170°	2033.3	2023.6	1994.6	1979.1	1969.5	1942.4	1909.5	1878.5	1845.6	1810.8	1779.9
172.5°	2022.5	2012.8	1985.3	1972.9	1967.9	1943.9	1917.2	1894.0	1865.8	1840.2	1815.5
175°	1994.6	1986.9	1963.7	1955.9	1957.9	1942.4	1923.0	1909.5	1892.1	1876.6	1863.1
177.5°	1954.0	1949.3	1932.3	1932.3	1938.5	1929.2	1923.0	1916.8	1909.1	1904.5	1899.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1	5341.1
2.5°	5282.1	5281.2	5300.0	5312.7	5306.9	5301.1	5306.9	5312.7	5300.0	5281.2	5282.1
5°	5087.2	5093.2	5121.0	5142.3	5144.0	5145.7	5144.0	5142.3	5121.0	5093.2	5087.2
7.5°	4694.7	4702.6	4733.4	4755.6	4752.3	4749.0	4752.3	4755.6	4733.4	4702.6	4694.7
10°	4366.9	4371.2	4381.5	4386.3	4374.7	4363.2	4374.7	4386.3	4381.5	4371.2	4366.9
12.5°	3946.7	3943.3	3958.7	3971.5	3976.4	3981.2	3976.4	3971.5	3958.7	3943.3	3946.7
15°	3290.2	3279.0	3299.6	3314.9	3314.4	3314.0	3314.4	3314.9	3299.6	3279.0	3290.2
17.5°	2681.6	2672.6	2676.4	2679.0	2677.7	2676.4	2677.7	2679.0	2676.4	2672.6	2681.6
20°	2293.3	2282.6	2279.6	2277.9	2280.0	2282.2	2280.0	2277.9	2279.6	2282.6	2293.3
22.5°	1973.9	1967.0	1959.5	1954.7	1957.5	1960.3	1957.5	1954.7	1959.5	1967.0	1973.9
25°	1537.4	1536.5	1546.8	1552.2	1543.3	1534.3	1543.3	1552.2	1546.8	1536.5	1537.4
27.5°	1261.8	1257.2	1258.4	1259.6	1261.3	1263.0	1261.3	1259.6	1258.4	1257.2	1261.8
30°	1109.9	1105.2	1105.6	1104.7	1099.5	1094.4	1099.5	1104.7	1105.6	1105.2	1109.9
32.5°	987.1	979.9	977.6	974.5	969.4	964.3	969.4	974.5	977.6	979.9	987.1
35°	818.0	810.1	803.7	798.6	797.3	796.0	797.3	798.6	803.7	810.1	818.0
37.5°	664.2	656.3	647.3	639.6	636.3	633.0	636.3	639.6	647.3	656.3	664.2
40°	565.2	557.5	546.4	536.9	532.2	527.5	532.2	536.9	546.4	557.5	565.2
42.5°	469.0	461.3	450.1	440.0	432.9	425.8	432.9	440.0	450.1	461.3	469.0
45°	332.3	327.6	314.7	295.6	257.5	219.5	257.5	295.6	314.7	327.6	332.3
47.5°	212.6	206.0	172.2	139.0	107.3	75.7	107.3	139.0	172.2	206.0	212.6
50°	152.5	146.3	104.0	68.6	54.0	39.5	54.0	68.6	104.0	146.3	152.5
52.5°	108.9	106.1	69.6	40.2	32.5	24.8	32.5	40.2	69.6	106.1	108.9
55°	51.9	51.0	31.8	16.6	13.6	10.6	13.6	16.6	31.8	51.0	51.9
57.5°	19.9	19.5	12.6	7.1	5.6	4.0	5.6	7.1	12.6	19.5	19.9
60°	9.1	8.9	5.5	2.7	1.8	1.0	1.8	2.7	5.5	8.9	9.1
62.5°	4.4	4.3	2.6	1.2	0.7	0.2	0.7	1.2	2.6	4.3	4.4
65°	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.7
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°	8.9	11.6	14.3	15.9	17.4	16.6	17.4	15.9	14.3	11.6	8.9
90°	44.5	58.0	71.6	79.3	87.1	83.2	87.1	79.3	71.6	58.0	44.5
92.5°	89.4	112.2	128.8	142.8	149.0	148.2	149.0	142.8	128.8	112.2	89.4
95°	179.9	207.0	234.1	253.4	265.0	261.2	265.0	253.4	234.1	207.0	179.9
97.5°	277.4	313.8	344.0	362.2	373.8	381.5	373.8	362.2	344.0	313.8	277.4
100°	342.4	377.3	412.1	433.4	452.7	460.4	452.7	433.4	412.1	377.3	342.4
102.5°	395.1	440.7	478.6	501.5	517.7	525.4	517.7	501.5	478.6	440.7	395.1
105°	481.7	530.1	570.7	599.7	617.2	623.0	617.2	599.7	570.7	530.1	481.7
107.5°	568.4	618.3	655.8	688.0	709.2	721.6	709.2	688.0	655.8	618.3	568.4
110°	636.5	677.1	717.8	746.8	768.1	775.8	768.1	746.8	717.8	677.1	636.5



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	693.8	739.0	779.7	808.7	833.1	843.9	833.1	808.7	779.7	739.0	693.8
115°	773.9	833.8	870.6	897.7	915.1	924.8	915.1	897.7	870.6	833.8	773.9
117.5°	840.4	903.1	943.3	964.2	972.4	979.3	972.4	964.2	943.3	903.1	840.4
120°	882.2	940.2	986.7	1013.8	1023.4	1027.3	1023.4	1013.8	986.7	940.2	882.2
122.5°	920.9	975.8	1020.7	1054.0	1069.9	1073.7	1069.9	1054.0	1020.7	975.8	920.9
125°	975.1	1027.3	1073.7	1106.6	1124.0	1133.7	1124.0	1106.6	1073.7	1027.3	975.1
127.5°	1022.3	1078.8	1121.3	1151.1	1168.1	1175.9	1168.1	1151.1	1121.3	1078.8	1022.3
130°	1048.6	1106.6	1149.2	1182.1	1197.5	1205.3	1197.5	1182.1	1149.2	1106.6	1048.6
132.5°	1068.7	1129.8	1173.9	1203.7	1220.8	1228.5	1220.8	1203.7	1173.9	1129.8	1068.7
135°	1093.1	1156.9	1203.3	1232.4	1247.8	1255.6	1247.8	1232.4	1203.3	1156.9	1093.1
137.5°	1114.4	1172.4	1220.8	1251.3	1265.3	1270.3	1265.3	1251.3	1220.8	1172.4	1114.4
140°	1129.8	1180.1	1228.5	1257.5	1273.0	1274.9	1273.0	1257.5	1228.5	1180.1	1129.8
142.5°	1150.0	1189.4	1231.6	1260.6	1276.1	1279.6	1276.1	1260.6	1231.6	1189.4	1150.0
145°	1185.9	1209.2	1238.2	1265.3	1278.8	1282.7	1278.8	1265.3	1238.2	1209.2	1185.9
147.5°	1231.2	1238.6	1253.6	1271.4	1284.6	1287.3	1284.6	1271.4	1253.6	1238.6	1231.2
150°	1265.3	1263.3	1269.1	1280.7	1292.3	1290.4	1292.3	1280.7	1269.1	1263.3	1265.3
152.5°	1303.9	1292.7	1292.3	1297.8	1303.2	1302.8	1303.2	1297.8	1292.3	1292.7	1303.9
155°	1369.7	1348.4	1336.8	1333.0	1333.0	1331.0	1333.0	1333.0	1336.8	1348.4	1369.7
157.5°	1442.1	1412.3	1394.9	1385.6	1382.9	1378.6	1382.9	1385.6	1394.9	1412.3	1442.1
160°	1491.6	1458.7	1441.3	1425.8	1420.0	1414.2	1420.0	1425.8	1441.3	1458.7	1491.6
162.5°	1538.0	1506.7	1487.7	1473.8	1468.0	1459.1	1468.0	1473.8	1487.7	1506.7	1538.0
165°	1613.5	1580.6	1559.3	1547.7	1540.0	1532.2	1540.0	1547.7	1559.3	1580.6	1613.5
167.5°	1688.9	1653.0	1639.0	1625.9	1618.5	1604.6	1618.5	1625.9	1639.0	1653.0	1688.9
170°	1735.4	1702.5	1694.7	1683.1	1669.6	1654.1	1669.6	1683.1	1694.7	1702.5	1735.4
172.5°	1775.6	1753.6	1745.8	1734.2	1730.0	1717.6	1730.0	1734.2	1745.8	1753.6	1775.6
175°	1834.0	1816.6	1816.6	1814.7	1808.9	1797.3	1808.9	1814.7	1816.6	1816.6	1834.0
177.5°	1882.8	1873.5	1879.7	1879.7	1878.1	1867.3	1878.1	1879.7	1879.7	1873.5	1882.8
180°	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	5341.1	5341.1	5341.1	5341.1
2.5°	5302.6	5320.2	5329.1	5338.0
5°	5103.0	5118.0	5130.4	5142.8
7.5°	4709.8	4720.0	4716.0	4712.0
10°	4368.6	4369.2	4366.2	4363.2
12.5°	3969.0	3982.7	3970.8	3958.9
15°	3332.9	3360.2	3341.0	3321.7
17.5°	2703.4	2720.2	2722.2	2724.2
20°	2311.7	2326.2	2329.2	2332.2
22.5°	1980.3	1986.4	1991.4	1996.5
25°	1549.4	1562.4	1578.7	1594.9
27.5°	1272.0	1279.7	1279.9	1280.2
30°	1119.7	1127.9	1130.9	1133.9
32.5°	999.4	1008.0	1005.9	1003.7
35°	827.5	834.5	834.5	834.5
37.5°	670.9	676.1	676.9	677.6
40°	569.5	573.2	575.4	577.5
42.5°	473.2	475.0	469.3	463.6
45°	328.9	320.3	296.4	272.4
47.5°	191.9	169.7	143.4	117.0
50°	122.6	95.0	74.4	53.9
52.5°	77.9	52.1	41.8	31.6
55°	34.3	20.3	16.9	13.5
57.5°	13.8	8.8	6.9	5.0
60°	6.1	3.6	2.8	1.9
62.5°	2.8	1.4	0.9	0.4
65°	0.3	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°	7.0	4.3	2.7	1.2
90°	34.8	21.3	13.5	5.8
92.5°	75.1	52.2	36.8	21.3
95°	150.9	119.9	85.1	60.0
97.5°	240.3	190.4	155.9	114.5
100°	288.3	239.9	207.0	162.5
102.5°	340.9	300.3	255.0	210.5
105°	435.3	385.0	332.8	282.5
107.5°	522.7	467.4	404.7	359.5
110°	578.5	518.5	452.7	412.1



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	632.6	571.1	503.8	463.2
115°	706.1	638.4	576.5	541.7
117.5°	777.0	707.3	641.9	614.4
120°	820.3	750.6	686.8	665.5
122.5°	855.9	787.8	728.6	719.7
125°	909.3	839.6	789.3	800.9
127.5°	952.6	888.8	857.0	883.0
130°	978.9	922.8	903.5	940.2
132.5°	1002.1	958.4	949.9	1000.6
135°	1037.0	1011.8	1019.6	1089.2
137.5°	1078.4	1068.7	1094.6	1182.5
140°	1104.7	1110.5	1147.2	1245.9
142.5°	1140.3	1153.8	1201.4	1306.3
145°	1195.6	1224.6	1286.5	1391.0
147.5°	1258.3	1295.8	1372.4	1479.6
150°	1300.1	1348.4	1429.7	1532.2
152.5°	1348.1	1398.0	1479.2	1583.3
155°	1422.0	1478.1	1563.2	1652.2
157.5°	1497.4	1554.7	1635.9	1713.7
160°	1543.8	1605.8	1679.3	1750.8
162.5°	1596.5	1653.7	1718.0	1781.8
165°	1673.5	1719.9	1772.1	1826.3
167.5°	1738.1	1776.8	1817.8	1860.0
170°	1779.9	1810.8	1845.6	1878.5
172.5°	1815.5	1840.2	1865.8	1894.0
175°	1863.1	1876.6	1892.1	1909.5
177.5°	1899.8	1904.5	1909.1	1916.8
180°	1915.3	1915.3	1915.3	1915.3



TEST NUMBER: P1427642

CATALOG NUMBER: SQ2W-BBN-K-150U-075D-L930-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