

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: P1435954

Luminaire Tested: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435954  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

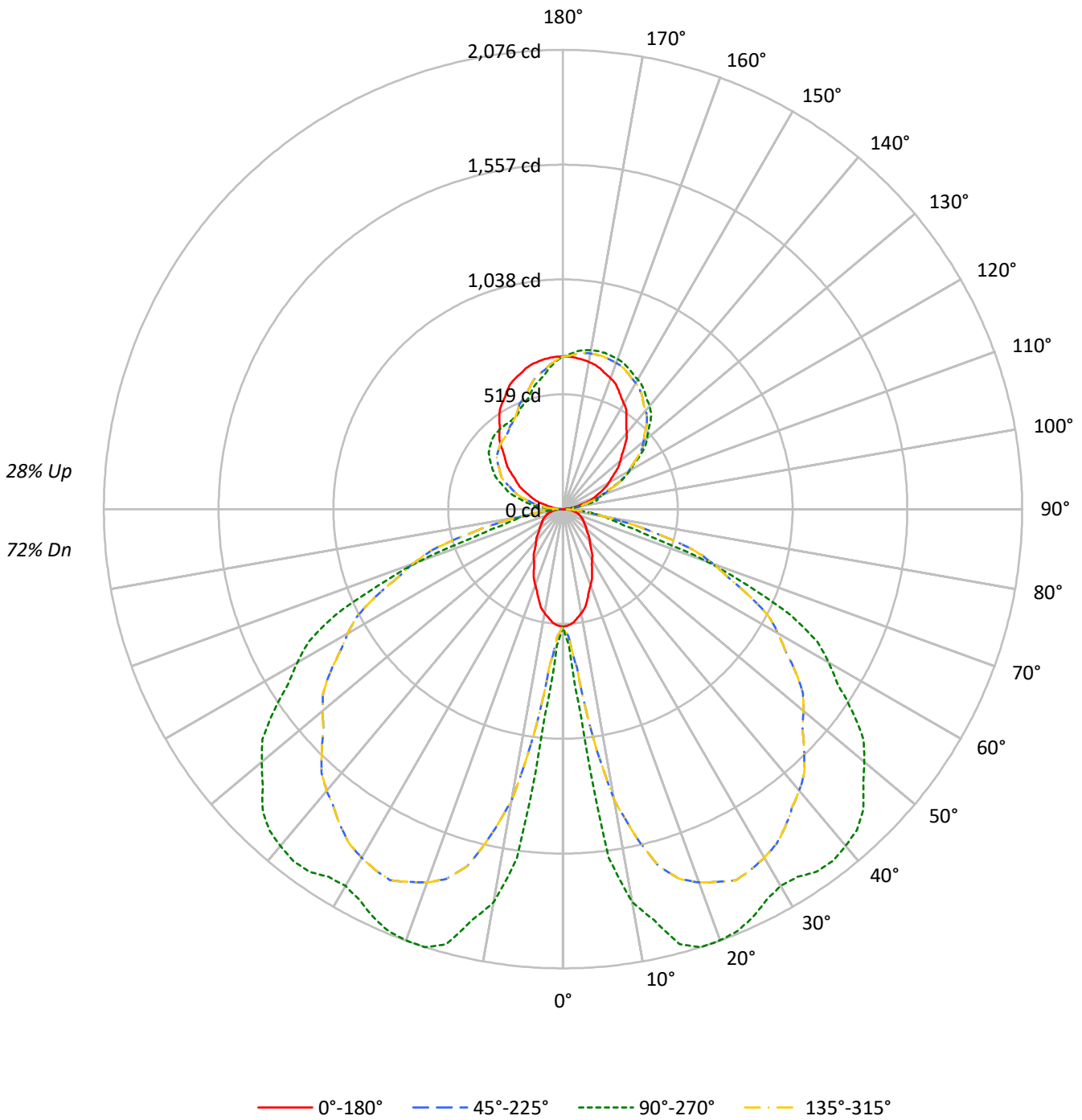
Lumens per Lamp: N/A  
Luminaire Lumens: 7261.2 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60
2	93	85	78	73	88	81	75	70	73	68	64	65	62	59	59	56	53	50
3	84	74	66	60	80	70	63	58	64	58	53	57	53	49	51	48	45	41
4	77	65	57	50	72	62	54	48	56	50	45	50	45	41	45	41	38	35
5	70	58	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	25
7	60	46	38	32	56	44	36	31	40	33	29	36	31	27	33	28	24	22
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	30	25	22	19
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	23	19	17
10	48	35	27	22	45	33	26	21	30	24	20	28	22	19	25	21	17	15

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

	0°	90°	180°	270°
0°	8578	8578	8578	8578
5°	8363	15194	8363	15194
10°	7832	29568	7832	29568
15°	7089	34032	7089	34032
20°	6276	35640	6276	35640
25°	5553	36224	5553	36224
30°	4905	36671	4905	36671
35°	4380	39424	4380	39424
40°	3983	41890	3983	41890
45°	3674	43863	3674	43863
50°	3464	44660	3464	44660
55°	3381	45016	3381	45016
60°	3465	44791	3465	44791
65°	3610	43525	3610	43525
70°	3739	32922	3739	32922
75°	4142	18166	4142	18166
80°	4277	16866	4277	16866
85°	4261	7095	4261	7095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 45422 cd/sqm



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	1.2
10°-20°	406.2	5.6
20°-30°	714.8	9.8
30°-40°	925.3	12.7
40°-50°	1020.4	14.1
50°-60°	952.4	13.1
60°-70°	735.8	10.1
70°-80°	339.2	4.7
80°-90°	67.7	0.9
90°-100°	54.8	0.8
100°-110°	159.8	2.2
110°-120°	260.8	3.6
120°-130°	330.9	4.6
130°-140°	354.1	4.9
140°-150°	330.7	4.6
150°-160°	272.1	3.7
160°-170°	182.5	2.5
170°-180°	64.8	0.9
0°-30°	1210.0	16.7
0°-40°	2135.3	29.4
0°-60°	4108.1	56.6
0°-90°	5250.7	72.3
90°-120°	475.4	6.5
90°-150°	1491.1	20.5
90°-180°	2010.0	27.7
0°-180°	7261.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	531	531	531	531	531	
5°	516	938	516	938	516	48
15°	424	2036	424	2036	424	118
25°	312	2033	312	2033	312	143
35°	222	2000	222	2000	222	140
45°	161	1921	161	1921	161	125
55°	120	1599	120	1599	120	108
65°	94	1139	94	1139	94	93
75°	66	291	66	291	66	68
85°	23	38	23	38	23	24
90°	2	15	2	30	2	3
95°	22	16	22	94	22	26
105°	102	163	102	224	102	108
115°	195	270	195	332	195	192
125°	288	428	288	408	288	258
135°	392	560	392	451	392	303
145°	500	645	500	461	500	313
155°	594	701	594	478	594	273
165°	657	731	657	551	657	185
175°	686	716	686	646	686	65
180°	689	689	689	689	689	



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
2.5°	527.3	537.3	547.2	557.9	568.8	580.6	593.3	604.2	609.7	615.1	609.7
5°	516.0	550.1	584.1	633.5	688.0	749.9	819.2	878.5	908.0	937.5	908.0
7.5°	496.1	565.4	634.6	781.4	953.9	1133.1	1318.8	1472.9	1531.9	1591.0	1531.9
10°	477.7	574.2	670.7	919.6	1219.4	1449.9	1611.1	1739.9	1771.7	1803.5	1771.7
12.5°	457.3	588.3	719.3	1026.6	1392.6	1632.2	1745.3	1838.3	1871.0	1903.7	1871.0
15°	424.1	611.4	798.7	1146.1	1546.9	1793.3	1885.3	1963.3	1999.7	2036.0	1999.7
17.5°	389.8	639.2	888.5	1242.9	1632.3	1872.6	1963.6	2036.8	2056.6	2076.3	2056.6
20°	365.3	658.2	951.1	1306.2	1682.0	1909.1	1987.5	2049.3	2061.8	2074.3	2061.8
22.5°	342.8	670.3	997.7	1353.2	1718.1	1930.2	1989.5	2037.3	2050.7	2064.1	2050.7
25°	311.7	680.6	1049.6	1404.2	1753.9	1947.4	1984.9	2015.3	2024.4	2033.4	2024.4
27.5°	281.5	671.4	1061.3	1411.3	1748.1	1928.7	1953.2	1973.8	1982.7	1991.5	1982.7
30°	263.1	659.4	1055.6	1402.5	1732.8	1907.1	1925.3	1942.0	1954.5	1967.0	1954.5
32.5°	246.8	644.8	1042.9	1385.4	1709.5	1880.1	1897.4	1917.1	1944.1	1971.1	1944.1
35°	222.2	613.9	1005.6	1344.6	1665.9	1840.1	1867.4	1900.3	1950.3	2000.2	1950.3
37.5°	201.3	574.4	947.5	1282.9	1605.8	1795.7	1852.7	1907.5	1955.7	2003.8	1955.7
40°	189.0	546.7	904.3	1237.3	1562.0	1762.4	1838.4	1905.7	1946.6	1987.5	1946.6
42.5°	176.8	515.3	853.9	1184.1	1511.6	1719.7	1808.5	1885.3	1926.1	1967.0	1926.1
45°	160.9	465.2	769.5	1096.8	1431.7	1651.4	1755.8	1843.8	1882.4	1921.0	1882.4
47.5°	146.1	410.4	674.7	1003.4	1353.6	1584.1	1694.9	1785.0	1813.2	1841.3	1813.2
50°	137.9	374.1	610.3	940.1	1301.1	1536.1	1645.1	1732.6	1755.3	1778.0	1755.3
52.5°	129.8	338.7	547.6	878.1	1249.1	1486.0	1588.6	1670.8	1691.7	1712.6	1691.7
55°	120.1	290.4	460.7	787.7	1166.9	1401.3	1491.0	1562.8	1581.0	1599.2	1581.0
57.5°	111.4	248.8	386.1	702.8	1079.3	1305.8	1382.4	1443.4	1458.2	1473.0	1458.2
60°	107.3	226.5	345.7	649.7	1015.3	1232.7	1302.0	1357.6	1372.4	1387.1	1372.4
62.5°	101.2	204.9	308.7	596.6	945.8	1152.3	1216.1	1267.5	1281.3	1295.2	1281.3
65°	94.5	178.5	262.6	522.0	839.9	1025.5	1078.9	1121.2	1130.3	1139.3	1130.3
67.5°	85.3	156.6	227.9	453.7	730.9	886.1	919.3	939.9	922.9	905.8	922.9
70°	79.2	145.0	210.9	412.1	658.5	787.4	798.7	795.0	746.2	697.4	746.2
72.5°	75.1	133.7	192.3	366.5	579.3	673.2	648.2	606.3	513.9	421.5	513.9
75°	66.4	114.1	161.8	292.9	451.9	476.9	367.9	286.7	288.9	291.2	288.9
77.5°	54.2	89.8	125.5	206.1	301.7	320.6	262.9	220.2	222.2	224.3	222.2
80°	46.0	74.4	102.8	134.5	167.5	182.8	180.5	179.1	180.2	181.4	180.2
82.5°	37.8	58.9	80.0	99.1	117.5	127.8	130.1	131.4	129.8	128.2	129.8
85°	23.0	35.5	48.0	55.3	61.0	59.3	50.2	42.9	40.6	38.3	40.6
87.5°	8.6	13.7	18.9	17.9	14.7	13.0	13.0	13.1	13.3	13.3	13.3
90°	2.1	4.9	8.3	11.1	13.2	13.9	13.9	14.6	15.3	15.3	15.3
92.5°	7.7	12.1	12.2	12.2	14.9	16.1	17.2	17.4	18.1	18.1	18.1
95°	21.6	23.6	35.5	34.8	23.6	18.8	16.0	16.0	16.0	16.0	16.0
97.5°	41.2	44.2	46.2	61.9	65.4	63.2	51.5	43.3	38.7	36.6	38.7
100°	58.4	59.8	64.0	64.7	82.1	98.8	90.4	80.0	76.5	74.4	76.5
102.5°	75.7	76.5	82.9	85.8	89.9	99.3	128.3	125.1	122.7	122.3	122.7
105°	101.5	102.2	114.1	119.6	122.4	122.4	121.7	135.6	157.9	162.7	157.9
107.5°	129.2	132.4	146.3	161.2	164.4	165.3	161.6	159.5	158.7	159.3	158.7
110°	148.1	153.0	169.7	188.5	193.4	194.7	193.4	191.3	189.9	189.9	189.9



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	166.5	173.6	192.5	214.1	222.3	226.5	223.4	221.9	220.5	221.6	220.5
115°	194.7	205.2	230.2	252.5	269.2	271.2	270.6	270.6	269.9	269.9	269.9
117.5°	220.9	237.6	265.7	291.6	310.9	316.5	319.2	318.4	317.6	319.0	317.6
120°	239.3	258.7	290.7	319.9	338.7	347.1	349.8	348.4	349.8	348.4	349.8
122.5°	258.7	282.7	314.1	344.4	366.5	376.0	379.3	379.6	379.9	379.1	379.9
125°	287.9	317.2	354.0	385.3	408.3	419.4	422.2	422.9	424.3	427.7	424.3
127.5°	317.4	350.5	391.0	421.2	444.7	458.2	462.5	464.0	467.0	468.5	467.0
130°	338.0	375.6	416.6	445.1	468.1	482.7	490.3	492.4	495.9	495.2	495.9
132.5°	359.7	398.9	440.5	470.2	491.4	507.2	513.7	519.7	520.9	521.9	520.9
135°	391.6	434.0	475.7	504.9	525.1	540.4	548.8	554.3	557.8	559.9	557.8
137.5°	425.1	469.9	509.9	536.0	556.3	569.5	578.9	584.8	588.4	590.1	588.4
140°	447.9	491.0	530.0	557.1	575.2	588.4	596.7	603.7	607.9	607.9	607.9
142.5°	469.6	512.2	550.0	577.1	593.0	605.1	614.0	619.3	624.0	624.0	624.0
145°	500.1	542.5	577.3	604.4	617.6	628.7	638.5	642.6	645.4	645.4	645.4
147.5°	531.9	569.5	601.2	627.2	638.3	651.4	659.1	662.4	665.9	664.3	665.9
150°	550.8	585.6	616.2	640.6	651.7	664.2	671.9	674.6	678.1	676.0	678.1
152.5°	569.2	602.3	630.1	652.8	662.3	674.8	683.5	686.3	688.7	687.2	688.7
155°	594.0	623.2	648.9	669.8	678.1	689.9	698.3	701.8	704.5	701.1	704.5
157.5°	616.1	641.3	663.7	682.8	691.8	701.9	709.7	714.0	716.8	715.3	716.8
160°	629.4	652.4	672.6	690.6	699.0	708.0	716.4	721.2	724.0	721.9	724.0
162.5°	640.6	661.3	680.3	696.8	704.0	711.9	721.9	726.2	729.0	726.4	729.0
165°	656.6	673.3	689.9	703.9	710.1	716.4	726.8	731.7	733.8	731.0	733.8
167.5°	668.7	681.5	695.0	706.9	711.5	717.6	728.1	732.1	734.7	731.3	734.7
170°	675.3	686.5	698.3	708.0	711.5	717.1	727.5	731.0	733.1	729.6	733.1
172.5°	680.9	689.2	698.8	707.5	709.3	713.7	723.6	727.1	728.6	725.7	728.6
175°	686.5	691.3	698.3	703.9	703.2	705.9	714.3	717.1	719.9	715.7	719.9
177.5°	689.1	691.3	693.6	696.9	694.7	694.7	700.8	702.5	703.0	700.8	703.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
2.5°	604.2	593.3	580.6	568.8	557.9	547.2	537.3	527.3	537.3	547.2	557.9
5°	878.5	819.2	749.9	688.0	633.5	584.1	550.1	516.0	550.1	584.1	633.5
7.5°	1472.9	1318.8	1133.1	953.9	781.4	634.6	565.4	496.1	565.4	634.6	781.4
10°	1739.9	1611.1	1449.9	1219.4	919.6	670.7	574.2	477.7	574.2	670.7	919.6
12.5°	1838.3	1745.3	1632.2	1392.6	1026.6	719.3	588.3	457.3	588.3	719.3	1026.6
15°	1963.3	1885.3	1793.3	1546.9	1146.1	798.7	611.4	424.1	611.4	798.7	1146.1
17.5°	2036.8	1963.6	1872.6	1632.3	1242.9	888.5	639.2	389.8	639.2	888.5	1242.9
20°	2049.3	1987.5	1909.1	1682.0	1306.2	951.1	658.2	365.3	658.2	951.1	1306.2
22.5°	2037.3	1989.5	1930.2	1718.1	1353.2	997.7	670.3	342.8	670.3	997.7	1353.2
25°	2015.3	1984.9	1947.4	1753.9	1404.2	1049.6	680.6	311.7	680.6	1049.6	1404.2
27.5°	1973.8	1953.2	1928.7	1748.1	1411.3	1061.3	671.4	281.5	671.4	1061.3	1411.3
30°	1942.0	1925.3	1907.1	1732.8	1402.5	1055.6	659.4	263.1	659.4	1055.6	1402.5
32.5°	1917.1	1897.4	1880.1	1709.5	1385.4	1042.9	644.8	246.8	644.8	1042.9	1385.4
35°	1900.3	1867.4	1840.1	1665.9	1344.6	1005.6	613.9	222.2	613.9	1005.6	1344.6
37.5°	1907.5	1852.7	1795.7	1605.8	1282.9	947.5	574.4	201.3	574.4	947.5	1282.9
40°	1905.7	1838.4	1762.4	1562.0	1237.3	904.3	546.7	189.0	546.7	904.3	1237.3
42.5°	1885.3	1808.5	1719.7	1511.6	1184.1	853.9	515.3	176.8	515.3	853.9	1184.1
45°	1843.8	1755.8	1651.4	1431.7	1096.8	769.5	465.2	160.9	465.2	769.5	1096.8
47.5°	1785.0	1694.9	1584.1	1353.6	1003.4	674.7	410.4	146.1	410.4	674.7	1003.4
50°	1732.6	1645.1	1536.1	1301.1	940.1	610.3	374.1	137.9	374.1	610.3	940.1
52.5°	1670.8	1588.6	1486.0	1249.1	878.1	547.6	338.7	129.8	338.7	547.6	878.1
55°	1562.8	1491.0	1401.3	1166.9	787.7	460.7	290.4	120.1	290.4	460.7	787.7
57.5°	1443.4	1382.4	1305.8	1079.3	702.8	386.1	248.8	111.4	248.8	386.1	702.8
60°	1357.6	1302.0	1232.7	1015.3	649.7	345.7	226.5	107.3	226.5	345.7	649.7
62.5°	1267.5	1216.1	1152.3	945.8	596.6	308.7	204.9	101.2	204.9	308.7	596.6
65°	1121.2	1078.9	1025.5	839.9	522.0	262.6	178.5	94.5	178.5	262.6	522.0
67.5°	939.9	919.3	886.1	730.9	453.7	227.9	156.6	85.3	156.6	227.9	453.7
70°	795.0	798.7	787.4	658.5	412.1	210.9	145.0	79.2	145.0	210.9	412.1
72.5°	606.3	648.2	673.2	579.3	366.5	192.3	133.7	75.1	133.7	192.3	366.5
75°	286.7	367.9	476.9	451.9	292.9	161.8	114.1	66.4	114.1	161.8	292.9
77.5°	220.2	262.9	320.6	301.7	206.1	125.5	89.8	54.2	89.8	125.5	206.1
80°	179.1	180.5	182.8	167.5	134.5	102.8	74.4	46.0	74.4	102.8	134.5
82.5°	131.4	130.1	127.8	117.5	99.1	80.0	58.9	37.8	58.9	80.0	99.1
85°	42.9	50.2	59.3	61.0	55.3	48.0	35.5	23.0	35.5	48.0	55.3
87.5°	13.1	13.0	13.0	14.7	17.9	18.9	13.7	8.6	13.7	18.8	18.2
90°	14.6	13.9	13.9	13.2	11.1	8.3	4.9	2.1	4.9	7.7	12.5
92.5°	17.4	17.2	16.1	14.9	12.2	12.2	12.1	7.7	13.2	18.8	27.0
95°	16.0	16.0	18.8	23.6	34.8	35.5	23.6	21.6	30.6	43.1	54.2
97.5°	43.3	51.5	63.2	65.4	61.9	46.2	44.2	41.2	56.1	68.4	86.4
100°	80.0	90.4	98.8	82.1	64.7	64.0	59.8	58.4	74.4	86.2	103.6
102.5°	125.1	128.3	99.3	89.9	85.8	82.9	76.5	75.7	91.7	107.9	122.5
105°	135.6	121.7	122.4	122.4	119.6	114.1	102.2	101.5	119.6	138.4	156.5
107.5°	159.5	161.6	165.3	164.4	161.2	146.3	132.4	129.2	145.5	168.0	187.9
110°	191.3	193.4	194.7	193.4	188.5	169.7	153.0	148.1	162.7	186.4	208.0



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	221.9	223.4	226.5	222.3	214.1	192.5	173.6	166.5	181.1	205.3	227.4
115°	270.6	270.6	271.2	269.2	252.5	230.2	205.2	194.7	207.3	229.5	253.9
117.5°	318.4	319.2	316.5	310.9	291.6	265.7	237.6	220.9	230.8	254.3	279.3
120°	348.4	349.8	347.1	338.7	319.9	290.7	258.7	239.3	246.9	269.9	294.9
122.5°	379.6	379.3	376.0	366.5	344.4	314.1	282.7	258.7	261.9	283.2	307.7
125°	422.9	422.2	419.4	408.3	385.3	354.0	317.2	287.9	283.8	301.9	326.9
127.5°	464.0	462.5	458.2	444.7	421.2	391.0	350.5	317.4	308.1	319.5	342.5
130°	492.4	490.3	482.7	468.1	445.1	416.6	375.6	338.0	324.8	331.8	351.9
132.5°	519.7	513.7	507.2	491.4	470.2	440.5	398.9	359.7	341.5	344.6	360.3
135°	554.3	548.8	540.4	525.1	504.9	475.7	434.0	391.6	366.5	363.8	372.8
137.5°	584.8	578.9	569.5	556.3	536.0	509.9	469.9	425.1	393.5	384.2	387.7
140°	603.7	596.7	588.4	575.2	557.1	530.0	491.0	447.9	412.4	399.2	397.1
142.5°	619.3	614.0	605.1	593.0	577.1	550.0	512.2	469.6	431.9	414.8	409.9
145°	642.6	638.5	628.7	617.6	604.4	577.3	542.5	500.1	462.5	440.3	429.8
147.5°	662.4	659.1	651.4	638.3	627.2	601.2	569.5	531.9	493.4	465.9	452.4
150°	674.6	671.9	664.2	651.7	640.6	616.2	585.6	550.8	514.0	484.8	467.4
152.5°	686.3	683.5	674.8	662.3	652.8	630.1	602.3	569.2	531.8	502.6	484.6
155°	701.8	698.3	689.9	678.1	669.8	648.9	623.2	594.0	562.0	531.4	511.2
157.5°	714.0	709.7	701.9	691.8	682.8	663.7	641.3	616.1	588.1	558.9	538.3
160°	721.2	716.4	708.0	699.0	690.6	672.6	652.4	629.4	603.7	577.3	555.0
162.5°	726.2	721.9	711.9	704.0	696.8	680.3	661.3	640.6	617.6	594.5	573.9
165°	731.7	726.8	716.4	710.1	703.9	689.9	673.3	656.6	637.1	618.3	601.6
167.5°	732.1	728.1	717.6	711.5	706.9	695.0	681.5	668.7	653.5	638.8	624.8
170°	731.0	727.5	717.1	711.5	708.0	698.3	686.5	675.3	663.5	651.0	639.9
172.5°	727.1	723.6	713.7	709.3	707.5	698.8	689.2	680.9	670.7	661.6	652.7
175°	717.1	714.3	705.9	703.2	703.9	698.3	691.3	686.5	680.2	674.6	669.8
177.5°	702.5	700.8	694.7	694.7	696.9	693.6	691.3	689.1	686.3	684.7	683.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
2.5°	568.8	580.6	593.3	604.2	609.7	615.1	609.7	604.2	593.3	580.6	568.8
5°	688.0	749.9	819.2	878.5	908.0	937.5	908.0	878.5	819.2	749.9	688.0
7.5°	953.9	1133.1	1318.8	1472.9	1531.9	1591.0	1531.9	1472.9	1318.8	1133.1	953.9
10°	1219.4	1449.9	1611.1	1739.9	1771.7	1803.5	1771.7	1739.9	1611.1	1449.9	1219.4
12.5°	1392.6	1632.2	1745.3	1838.3	1871.0	1903.7	1871.0	1838.3	1745.3	1632.2	1392.6
15°	1546.9	1793.3	1885.3	1963.3	1999.7	2036.0	1999.7	1963.3	1885.3	1793.3	1546.9
17.5°	1632.3	1872.6	1963.6	2036.8	2056.6	2076.3	2056.6	2036.8	1963.6	1872.6	1632.3
20°	1682.0	1909.1	1987.5	2049.3	2061.8	2074.3	2061.8	2049.3	1987.5	1909.1	1682.0
22.5°	1718.1	1930.2	1989.5	2037.3	2050.7	2064.1	2050.7	2037.3	1989.5	1930.2	1718.1
25°	1753.9	1947.4	1984.9	2015.3	2024.4	2033.4	2024.4	2015.3	1984.9	1947.4	1753.9
27.5°	1748.1	1928.7	1953.2	1973.8	1982.7	1991.5	1982.7	1973.8	1953.2	1928.7	1748.1
30°	1732.8	1907.1	1925.3	1942.0	1954.5	1967.0	1954.5	1942.0	1925.3	1907.1	1732.8
32.5°	1709.5	1880.1	1897.4	1917.1	1944.1	1971.1	1944.1	1917.1	1897.4	1880.1	1709.5
35°	1665.9	1840.1	1867.4	1900.3	1950.3	2000.2	1950.3	1900.3	1867.4	1840.1	1665.9
37.5°	1605.8	1795.7	1852.7	1907.5	1955.7	2003.8	1955.7	1907.5	1852.7	1795.7	1605.8
40°	1562.0	1762.4	1838.4	1905.7	1946.6	1987.5	1946.6	1905.7	1838.4	1762.4	1562.0
42.5°	1511.6	1719.7	1808.5	1885.3	1926.1	1967.0	1926.1	1885.3	1808.5	1719.7	1511.6
45°	1431.7	1651.4	1755.8	1843.8	1882.4	1921.0	1882.4	1843.8	1755.8	1651.4	1431.7
47.5°	1353.6	1584.1	1694.9	1785.0	1813.2	1841.3	1813.2	1785.0	1694.9	1584.1	1353.6
50°	1301.1	1536.1	1645.1	1732.6	1755.3	1778.0	1755.3	1732.6	1645.1	1536.1	1301.1
52.5°	1249.1	1486.0	1588.6	1670.8	1691.7	1712.6	1691.7	1670.8	1588.6	1486.0	1249.1
55°	1166.9	1401.3	1491.0	1562.8	1581.0	1599.2	1581.0	1562.8	1491.0	1401.3	1166.9
57.5°	1079.3	1305.8	1382.4	1443.4	1458.2	1473.0	1458.2	1443.4	1382.4	1305.8	1079.3
60°	1015.3	1232.7	1302.0	1357.6	1372.4	1387.1	1372.4	1357.6	1302.0	1232.7	1015.3
62.5°	945.8	1152.3	1216.1	1267.5	1281.3	1295.2	1281.3	1267.5	1216.1	1152.3	945.8
65°	839.9	1025.5	1078.9	1121.2	1130.3	1139.3	1130.3	1121.2	1078.9	1025.5	839.9
67.5°	730.9	886.1	919.3	939.9	922.9	905.8	922.9	939.9	919.3	886.1	730.9
70°	658.5	787.4	798.7	795.0	746.2	697.4	746.2	795.0	798.7	787.4	658.5
72.5°	579.3	673.2	648.2	606.3	513.9	421.5	513.9	606.3	648.2	673.2	579.3
75°	451.9	476.9	367.9	286.7	288.9	291.2	288.9	286.7	367.9	476.9	451.9
77.5°	301.7	320.6	262.9	220.2	222.2	224.3	222.2	220.2	262.9	320.6	301.7
80°	167.5	182.8	180.5	179.1	180.2	181.4	180.2	179.1	180.5	182.8	167.5
82.5°	117.5	127.8	130.1	131.4	129.8	128.2	129.8	131.4	130.1	127.8	117.5
85°	61.0	59.3	50.2	42.9	40.6	38.3	40.6	42.9	50.2	59.3	61.0
87.5°	15.2	14.4	15.4	15.9	16.5	16.2	16.5	15.9	15.4	14.4	15.2
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	25.7	20.9	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	46.3	40.3	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	84.2	74.4	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	123.7	112.8	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	148.1	135.6	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	172.1	158.4	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	205.2	190.6	173.2
107.5°	204.3	222.3	235.8	247.3	255.0	259.4	255.0	247.3	235.8	222.3	204.3
110°	228.8	243.4	258.0	268.5	276.1	278.9	276.1	268.5	258.0	243.4	228.8



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	249.4	265.7	280.3	290.7	299.5	303.4	299.5	290.7	280.3	265.7	249.4
115°	278.2	299.8	313.0	322.7	329.0	332.5	329.0	322.7	313.0	299.8	278.2
117.5°	302.1	324.7	339.1	346.6	349.6	352.1	349.6	346.6	339.1	324.7	302.1
120°	317.2	338.0	354.7	364.4	367.9	369.3	367.9	364.4	354.7	338.0	317.2
122.5°	331.1	350.8	366.9	378.9	384.6	386.0	384.6	378.9	366.9	350.8	331.1
125°	350.5	369.3	386.0	397.8	404.1	407.6	404.1	397.8	386.0	369.3	350.5
127.5°	367.5	387.8	403.1	413.8	419.9	422.7	419.9	413.8	403.1	387.8	367.5
130°	377.0	397.8	413.1	425.0	430.5	433.3	430.5	425.0	413.1	397.8	377.0
132.5°	384.2	406.2	422.0	432.7	438.9	441.6	438.9	432.7	422.0	406.2	384.2
135°	393.0	415.9	432.6	443.0	448.6	451.4	448.6	443.0	432.6	415.9	393.0
137.5°	400.6	421.5	438.9	449.9	454.9	456.7	454.9	449.9	438.9	421.5	400.6
140°	406.2	424.3	441.6	452.1	457.6	458.3	457.6	452.1	441.6	424.3	406.2
142.5°	413.4	427.6	442.8	453.2	458.8	460.0	458.8	453.2	442.8	427.6	413.4
145°	426.3	434.7	445.1	454.9	459.7	461.1	459.7	454.9	445.1	434.7	426.3
147.5°	442.6	445.3	450.7	457.1	461.8	462.8	461.8	457.1	445.3	442.6	442.6
150°	454.9	454.2	456.3	460.4	464.6	463.9	464.6	460.4	456.3	454.2	454.9
152.5°	468.8	464.7	464.6	466.5	468.5	468.4	468.5	466.5	464.6	464.7	468.8
155°	492.4	484.8	480.6	479.2	479.2	478.5	479.2	479.2	480.6	484.8	492.4
157.5°	518.4	507.7	501.5	498.1	497.1	495.6	497.1	498.1	501.5	507.7	518.4
160°	536.2	524.4	518.2	512.6	510.5	508.4	510.5	512.6	518.2	524.4	536.2
162.5°	552.9	541.7	534.8	529.8	527.8	524.6	527.8	529.8	534.8	541.7	552.9
165°	580.1	568.2	560.6	556.4	553.6	550.8	553.6	556.4	560.6	568.2	580.1
167.5°	607.2	594.2	589.2	584.5	581.9	576.9	581.9	584.5	589.2	594.2	607.2
170°	623.9	612.0	609.3	605.1	600.2	594.7	600.2	605.1	609.3	612.0	623.9
172.5°	638.3	630.4	627.6	623.5	621.9	617.5	621.9	623.5	627.6	630.4	638.3
175°	659.3	653.1	653.1	652.4	650.3	646.1	650.3	652.4	653.1	653.1	659.3
177.5°	676.9	673.5	675.8	675.8	675.2	671.3	675.2	675.8	675.8	673.5	676.9
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	531.3	531.3	531.3	531.3
2.5°	557.9	547.2	537.3	527.3
5°	633.5	584.1	550.1	516.0
7.5°	781.4	634.6	565.4	496.1
10°	919.6	670.7	574.2	477.7
12.5°	1026.6	719.3	588.3	457.3
15°	1146.1	798.7	611.4	424.1
17.5°	1242.9	888.5	639.2	389.8
20°	1306.2	951.1	658.2	365.3
22.5°	1353.2	997.7	670.3	342.8
25°	1404.2	1049.6	680.6	311.7
27.5°	1411.3	1061.3	671.4	281.5
30°	1402.5	1055.6	659.4	263.1
32.5°	1385.4	1042.9	644.8	246.8
35°	1344.6	1005.6	613.9	222.2
37.5°	1282.9	947.5	574.4	201.3
40°	1237.3	904.3	546.7	189.0
42.5°	1184.1	853.9	515.3	176.8
45°	1096.8	769.5	465.2	160.9
47.5°	1003.4	674.7	410.4	146.1
50°	940.1	610.3	374.1	137.9
52.5°	878.1	547.6	338.7	129.8
55°	787.7	460.7	290.4	120.1
57.5°	702.8	386.1	248.8	111.4
60°	649.7	345.7	226.5	107.3
62.5°	596.6	308.7	204.9	101.2
65°	522.0	262.6	178.5	94.5
67.5°	453.7	227.9	156.6	85.3
70°	412.1	210.9	145.0	79.2
72.5°	366.5	192.3	133.7	75.1
75°	292.9	161.8	114.1	66.4
77.5°	206.1	125.5	89.8	54.2
80°	134.5	102.8	74.4	46.0
82.5°	99.1	80.0	58.9	37.8
85°	55.3	48.0	35.5	23.0
87.5°	18.2	18.8	13.7	8.6
90°	12.5	7.7	4.9	2.1
92.5°	27.0	18.8	13.2	7.7
95°	54.2	43.1	30.6	21.6
97.5°	86.4	68.4	56.1	41.2
100°	103.6	86.2	74.4	58.4
102.5°	122.5	107.9	91.7	75.7
105°	156.5	138.4	119.6	101.5
107.5°	187.9	168.0	145.5	129.2
110°	208.0	186.4	162.7	148.1

TEST NUMBER: P1435954

CATALOG NUMBER: SQ2W-FB-K-050U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	227.4	205.3	181.1	166.5
115°	253.9	229.5	207.3	194.7
117.5°	279.3	254.3	230.8	220.9
120°	294.9	269.9	246.9	239.3
122.5°	307.7	283.2	261.9	258.7
125°	326.9	301.9	283.8	287.9
127.5°	342.5	319.5	308.1	317.4
130°	351.9	331.8	324.8	338.0
132.5°	360.3	344.6	341.5	359.7
135°	372.8	363.8	366.5	391.6
137.5°	387.7	384.2	393.5	425.1
140°	397.1	399.2	412.4	447.9
142.5°	409.9	414.8	431.9	469.6
145°	429.8	440.3	462.5	500.1
147.5°	452.4	465.9	493.4	531.9
150°	467.4	484.8	514.0	550.8
152.5°	484.6	502.6	531.8	569.2
155°	511.2	531.4	562.0	594.0
157.5°	538.3	558.9	588.1	616.1
160°	555.0	577.3	603.7	629.4
162.5°	573.9	594.5	617.6	640.6
165°	601.6	618.3	637.1	656.6
167.5°	624.8	638.8	653.5	668.7
170°	639.9	651.0	663.5	675.3
172.5°	652.7	661.6	670.7	680.9
175°	669.8	674.6	680.2	686.5
177.5°	683.0	684.7	686.3	689.1
180°	688.6	688.6	688.6	688.6



TEST NUMBER: P1435954  
 CATALOG NUMBER: SQ2W-FB-K-050U-125D-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	15.46	16.61	16.20	17.37	18.28	25.06	26.21	25.79	26.97	27.88
	3H	16.43	17.46	17.17	18.23	19.17	26.69	27.72	27.44	28.49	29.43
	4H	16.84	17.81	17.60	18.59	19.54	26.88	27.86	27.64	28.63	29.59
	6H	17.11	18.01	17.89	18.79	19.76	26.97	27.87	27.75	28.66	29.63
	8H	17.21	18.07	18.00	18.87	19.84	27.00	27.86	27.79	28.66	29.63
	12H	17.27	18.09	18.06	18.89	19.88	26.99	27.80	27.78	28.60	29.60
4H	2H	20.22	21.20	20.99	21.97	22.93	25.46	26.44	26.23	27.22	28.17
	3H	21.38	22.19	22.16	23.00	23.97	27.38	28.19	28.16	29.01	29.98
	4H	21.67	22.41	22.47	23.22	24.22	27.61	28.35	28.41	29.17	30.16
	6H	21.82	22.47	22.64	23.30	24.31	27.76	28.40	28.58	29.24	30.24
	8H	21.87	22.47	22.69	23.30	24.32	27.82	28.41	28.63	29.25	30.26
	12H	21.89	22.43	22.73	23.28	24.30	27.81	28.35	28.65	29.20	30.23
8H	4H	22.89	23.49	23.71	24.32	25.34	27.73	28.33	28.55	29.16	30.18
	6H	23.16	23.66	24.01	24.53	25.55	27.94	28.43	28.79	29.31	30.33
	8H	23.26	23.70	24.12	24.57	25.61	28.03	28.47	28.89	29.34	30.38
	12H	23.32	23.71	24.18	24.57	25.66	28.05	28.44	28.92	29.30	30.39
12H	4H	22.93	23.47	23.77	24.32	25.34	27.70	28.23	28.53	29.09	30.11
	6H	23.27	23.71	24.13	24.58	25.62	27.93	28.37	28.79	29.24	30.27
	8H	23.42	23.81	24.29	24.67	25.76	28.04	28.43	28.90	29.29	30.38