

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: P1435786

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435786  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-050U-125D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC 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**

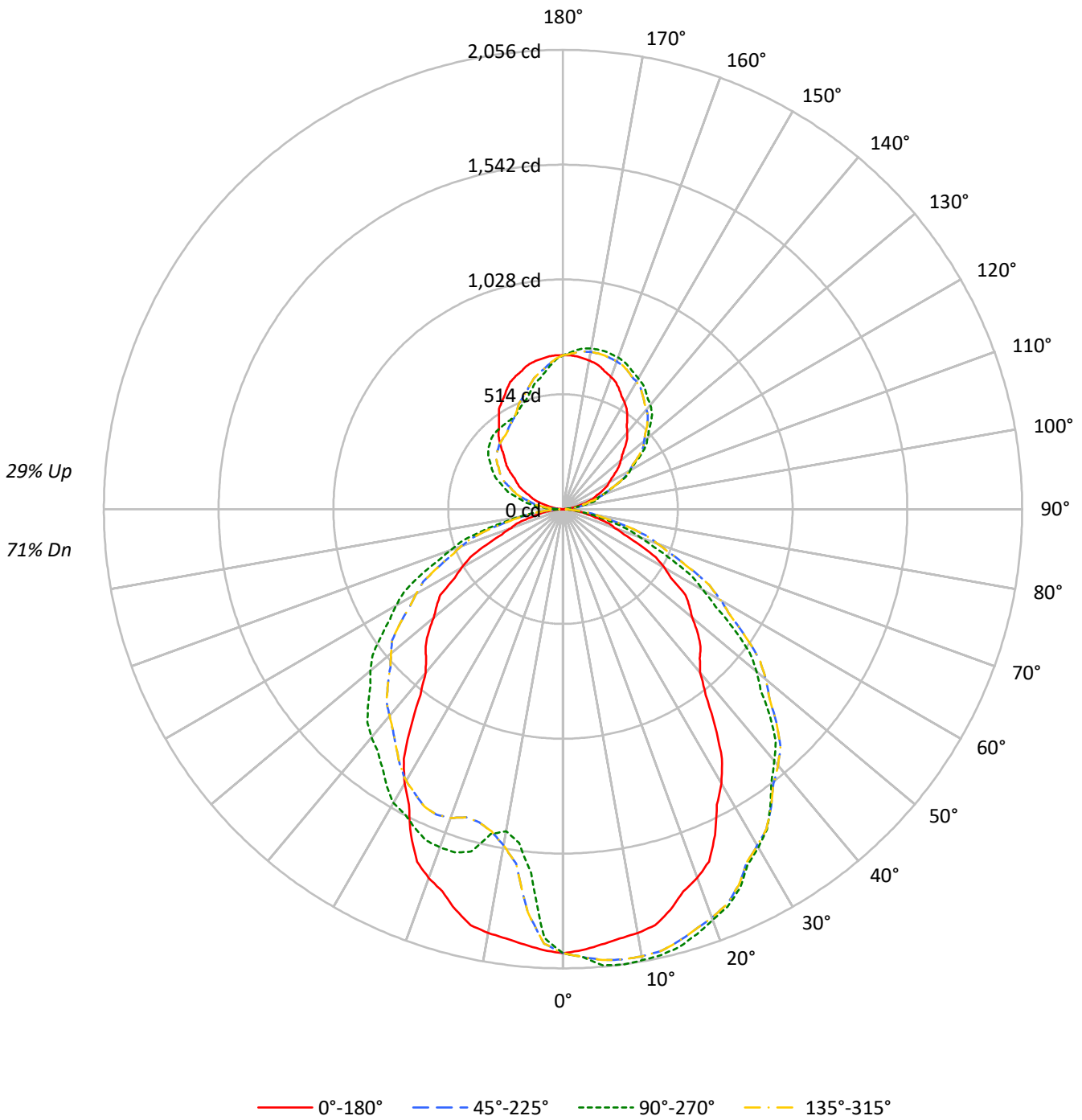
Lumens per Lamp: N/A  
Luminaire Lumens: 6951.6 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (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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### 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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	98	94	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	86	80	74	88	82	76	71	74	69	65	66	63	60	59	56	54	54	54	54	51	
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	46	46	46	43	
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	40	40	40	37	
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	42	38	35	35	35	35	32	
6	66	54	45	39	63	51	44	38	47	40	35	42	37	33	38	34	31	31	31	31	28	
7	61	49	40	35	58	47	39	34	42	36	31	39	33	29	35	31	27	27	27	27	25	
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24	24	24	24	22	
9	53	41	33	28	50	39	32	27	36	29	25	33	27	24	30	25	22	22	22	22	20	
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	20	20	20	18	

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

	0°	90°	180°	270°
0°	32105	32105	32105	32105
5°	31729	33228	31729	26483
10°	31589	33612	31589	24008
15°	31048	33882	31048	26539
20°	30193	33637	30193	27676
25°	28696	33365	28696	28010
30°	26440	32618	26440	28308
35°	23394	31901	23394	27799
40°	20143	31027	20143	28103
45°	19885	29918	19885	28158
50°	18972	28459	18972	28265
55°	18874	26252	18874	27988
60°	16924	23395	16924	27874
65°	14430	20611	14430	27090
70°	11641	17466	11641	25104
75°	10100	14423	10100	23081
80°	8601	10748	8601	18633
85°	5706	5706	5706	11430

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 30857 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	2.6
10°-20°	499.9	7.2
20°-30°	759.2	10.9
30°-40°	891.4	12.8
40°-50°	904.6	13.0
50°-60°	792.3	11.4
60°-70°	562.0	8.1
70°-80°	289.3	4.2
80°-90°	63.5	0.9
90°-100°	54.8	0.8
100°-110°	159.8	2.3
110°-120°	260.8	3.8
120°-130°	330.9	4.8
130°-140°	354.1	5.1
140°-150°	330.7	4.8
150°-160°	272.1	3.9
160°-170°	182.5	2.6
170°-180°	64.8	0.9
0°-30°	1438.1	20.7
0°-40°	2329.4	33.5
0°-60°	4026.3	57.9
0°-90°	4941.1	71.1
90°-120°	475.4	6.8
90°-150°	1491.1	21.4
90°-180°	2010.0	28.9
0°-180°	6951.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1988	1988	1988	1988	1988	
5°	1958	2050	1958	1634	1958	186
15°	1858	2027	1858	1588	1858	522
25°	1611	1873	1611	1572	1611	735
35°	1187	1618	1187	1410	1187	740
45°	871	1310	871	1233	871	666
55°	670	933	670	994	670	580
65°	378	540	378	709	378	377
75°	162	231	162	370	162	175
85°	31	31	31	62	31	39
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5
2.5°	1976.2	1989.9	2003.6	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0	2007.0
5°	1957.7	1981.7	2005.6	2016.8	2023.6	2028.8	2032.2	2036.5	2043.3	2050.2	2043.3
7.5°	1939.2	1971.4	2003.6	2019.3	2029.6	2037.8	2044.0	2049.5	2052.9	2056.3	2052.9
10°	1926.8	1964.5	2002.2	2019.3	2029.6	2036.5	2039.9	2043.3	2046.7	2050.2	2046.7
12.5°	1908.3	1948.8	1989.2	2009.1	2022.1	2030.3	2033.7	2037.1	2040.6	2044.0	2040.6
15°	1857.5	1912.3	1967.1	1988.5	1998.8	2007.3	2014.2	2020.2	2023.6	2027.0	2023.6
17.5°	1794.3	1860.7	1927.2	1954.1	1967.8	1977.7	1983.9	1989.2	1991.9	1994.7	1991.9
20°	1757.3	1829.2	1901.2	1929.4	1943.1	1951.7	1955.1	1957.7	1957.7	1957.7	1957.7
22.5°	1708.0	1788.1	1868.3	1898.6	1912.3	1919.5	1920.2	1921.4	1924.1	1926.8	1924.1
25°	1610.8	1703.3	1795.8	1834.4	1854.9	1863.5	1860.0	1859.2	1866.0	1872.9	1866.0
27.5°	1492.1	1608.6	1725.1	1764.5	1778.2	1786.7	1790.2	1792.7	1792.7	1792.7	1792.7
30°	1418.2	1548.3	1678.5	1721.3	1735.0	1743.6	1747.0	1749.6	1749.6	1749.6	1749.6
32.5°	1325.7	1480.5	1635.3	1682.3	1693.2	1699.0	1699.7	1700.2	1700.2	1700.2	1700.2
35°	1186.9	1375.3	1563.7	1616.0	1622.8	1626.3	1626.3	1625.4	1622.0	1618.5	1622.0
37.5°	1048.2	1262.0	1475.7	1536.9	1547.1	1549.9	1545.1	1540.6	1537.2	1533.8	1537.2
40°	955.7	1188.6	1421.6	1487.5	1497.8	1497.8	1487.5	1479.0	1475.5	1472.1	1475.5
42.5°	906.4	1136.6	1366.8	1432.0	1442.3	1440.9	1427.9	1417.3	1413.9	1410.4	1413.9
45°	870.9	1076.5	1282.0	1341.1	1351.4	1349.6	1335.9	1324.0	1317.1	1310.3	1317.1
47.5°	817.0	997.8	1178.7	1236.8	1253.9	1252.2	1231.6	1214.5	1207.7	1200.8	1207.7
50°	755.3	933.4	1111.6	1169.0	1186.1	1184.4	1163.8	1146.7	1139.8	1133.0	1139.8
52.5°	712.2	879.3	1046.5	1099.1	1113.5	1109.0	1085.7	1066.5	1059.7	1052.8	1059.7
55°	670.5	811.0	951.4	994.3	1004.5	997.7	973.7	953.1	942.9	932.6	942.9
57.5°	573.4	707.0	840.6	882.2	893.2	885.0	857.6	834.1	822.5	810.8	822.5
60°	524.1	644.0	763.9	804.1	817.8	811.0	783.6	758.7	741.6	724.5	741.6
62.5°	468.6	574.8	681.0	721.9	741.1	737.0	709.6	684.8	667.6	650.5	667.6
65°	377.7	470.1	562.6	603.7	627.7	626.0	598.6	573.8	556.6	539.5	556.6
67.5°	296.0	375.4	454.9	495.3	522.7	521.4	491.2	465.2	451.5	437.8	451.5
70°	246.6	315.1	383.7	421.3	448.7	448.7	421.3	397.4	383.7	370.0	383.7
72.5°	215.8	267.9	319.9	355.6	385.7	385.7	355.6	330.2	319.3	308.3	319.3
75°	161.9	192.7	223.5	256.9	291.2	294.6	267.2	244.9	238.1	231.2	238.1
77.5°	117.2	131.5	145.9	172.1	202.3	205.7	182.4	164.3	161.5	158.8	161.5
80°	92.5	95.9	99.3	120.7	148.2	151.6	131.0	115.6	115.6	115.6	115.6
82.5°	61.7	65.1	68.5	83.8	102.9	105.0	89.9	77.9	75.2	72.4	75.2
85°	30.8	30.8	30.8	36.0	42.8	42.8	36.0	30.8	30.8	30.8	30.8
87.5°	6.6	7.1	7.8	10.4	13.6	13.7	11.0	9.1	9.2	9.2	9.2
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

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**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



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5
2.5°	2007.0	2007.0	2007.0	2007.0	2007.0	2003.6	1989.9	1976.2	1976.2	1976.2	1965.9
5°	2036.5	2032.2	2028.8	2023.6	2016.8	2005.6	1981.7	1957.7	1947.4	1937.1	1893.4
7.5°	2049.5	2044.0	2037.8	2029.6	2019.3	2003.6	1971.4	1939.2	1893.3	1847.4	1750.1
10°	2043.3	2039.9	2036.5	2029.6	2019.3	2002.2	1964.5	1926.8	1834.4	1741.9	1649.4
12.5°	2037.1	2033.7	2030.3	2022.1	2009.1	1989.2	1948.8	1908.3	1777.5	1646.6	1563.1
15°	2020.2	2014.2	2007.3	1998.8	1988.5	1967.1	1912.3	1857.5	1710.2	1562.9	1492.7
17.5°	1989.2	1983.9	1977.7	1967.8	1954.1	1927.2	1860.7	1794.3	1640.1	1486.0	1440.8
20°	1957.7	1955.1	1951.7	1943.1	1929.4	1901.2	1829.2	1757.3	1603.1	1449.0	1428.4
22.5°	1921.4	1920.2	1919.5	1912.3	1898.6	1868.3	1788.1	1708.0	1556.5	1405.1	1405.8
25°	1859.2	1860.0	1863.5	1854.9	1834.4	1795.8	1703.3	1610.8	1477.2	1343.7	1366.8
27.5°	1792.7	1790.2	1786.7	1778.2	1764.5	1725.1	1608.6	1492.1	1386.6	1281.1	1319.5
30°	1749.6	1747.0	1743.6	1735.0	1721.3	1678.5	1548.3	1418.2	1329.1	1240.0	1284.6
32.5°	1700.2	1699.7	1699.0	1693.2	1682.3	1635.3	1480.5	1325.7	1261.3	1196.9	1243.5
35°	1625.4	1626.3	1626.3	1622.8	1616.0	1563.7	1375.3	1186.9	1159.5	1132.1	1186.9
37.5°	1540.6	1545.1	1549.9	1547.1	1536.9	1475.7	1262.0	1048.2	1057.1	1066.0	1132.5
40°	1479.0	1487.5	1497.8	1497.8	1487.5	1421.6	1188.6	955.7	986.5	1017.4	1089.3
42.5°	1417.3	1427.9	1440.9	1442.3	1432.0	1366.8	1136.6	906.4	940.0	973.5	1048.2
45°	1324.0	1335.9	1349.6	1351.4	1341.1	1282.0	1076.5	870.9	891.5	912.0	984.0
47.5°	1214.5	1231.6	1252.2	1253.9	1236.8	1178.7	997.8	817.0	832.1	847.1	920.8
50°	1146.7	1163.8	1184.4	1186.1	1169.0	1111.6	933.4	755.3	775.9	796.4	873.5
52.5°	1066.5	1085.7	1109.0	1113.5	1099.1	1046.5	879.3	712.2	724.5	736.8	820.1
55°	953.1	973.7	997.7	1004.5	994.3	951.4	811.0	670.5	660.3	650.0	734.8
57.5°	834.1	857.6	885.0	893.2	882.2	840.6	707.0	573.4	564.5	555.6	647.4
60°	758.7	783.6	811.0	817.8	804.1	763.9	644.0	524.1	507.0	489.8	585.8
62.5°	684.8	709.6	737.0	741.1	721.9	681.0	574.8	468.6	457.0	445.3	538.5
65°	573.8	598.6	626.0	627.7	603.7	562.6	470.1	377.7	384.5	391.4	475.3
67.5°	465.2	491.2	521.4	522.7	495.3	454.9	375.4	296.0	318.6	341.2	416.7
70°	397.4	421.3	448.7	448.7	421.3	383.7	315.1	246.6	277.5	308.3	377.7
72.5°	330.2	355.6	385.7	385.7	355.6	319.9	267.9	215.8	246.6	277.5	334.5
75°	244.9	267.2	294.6	291.2	256.9	223.5	192.7	161.9	192.7	223.5	267.2
77.5°	164.3	182.4	205.7	202.3	172.1	145.9	131.5	117.2	142.5	167.8	198.3
80°	115.6	131.0	151.6	148.2	120.7	99.3	95.9	92.5	109.6	126.7	149.0
82.5°	77.9	89.9	105.0	102.9	83.8	68.5	65.1	61.7	76.0	90.4	105.8
85°	30.8	36.0	42.8	42.8	36.0	30.8	30.8	30.8	37.7	44.5	51.4
87.5°	9.1	11.0	13.7	13.6	10.4	7.8	7.1	6.6	9.9	13.2	14.8
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: P1435786

CATALOG NUMBER: SQ2W-FA-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: P1435786

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5	1988.5
2.5°	1952.2	1941.2	1933.0	1926.2	1923.4	1920.7	1923.4	1926.2	1933.0	1941.2	1952.2
5°	1838.6	1780.4	1718.7	1668.2	1651.1	1634.0	1651.1	1668.2	1718.7	1780.4	1838.6
7.5°	1635.7	1565.5	1539.4	1518.5	1513.0	1507.6	1513.0	1518.5	1539.4	1565.5	1635.7
10°	1556.9	1500.4	1479.8	1464.4	1464.4	1464.4	1464.4	1464.4	1479.8	1500.4	1556.9
12.5°	1495.2	1460.6	1459.3	1461.7	1475.4	1489.1	1475.4	1461.7	1459.3	1460.6	1495.2
15°	1448.1	1453.3	1508.1	1553.5	1570.6	1587.7	1570.6	1553.5	1508.1	1453.3	1448.1
17.5°	1431.9	1461.3	1529.1	1583.4	1597.1	1610.8	1597.1	1583.4	1529.1	1461.3	1431.9
20°	1452.4	1490.1	1541.5	1583.4	1597.1	1610.8	1597.1	1583.4	1541.5	1490.1	1452.4
22.5°	1457.2	1503.1	1543.5	1577.3	1591.0	1604.7	1591.0	1577.3	1543.5	1503.1	1457.2
25°	1442.1	1496.9	1531.2	1558.6	1565.5	1572.3	1565.5	1558.6	1531.2	1496.9	1442.1
27.5°	1405.8	1466.1	1500.4	1527.3	1532.1	1536.9	1532.1	1527.3	1500.4	1466.1	1405.8
30°	1373.6	1435.3	1469.5	1497.8	1508.1	1518.4	1508.1	1497.8	1469.5	1435.3	1373.6
32.5°	1327.0	1390.1	1432.5	1464.9	1467.0	1469.0	1467.0	1464.9	1432.5	1390.1	1327.0
35°	1269.1	1334.2	1382.2	1417.3	1413.9	1410.4	1413.9	1417.3	1382.2	1334.2	1269.1
37.5°	1218.1	1281.8	1323.6	1356.0	1360.1	1364.2	1360.1	1356.0	1323.6	1281.8	1218.1
40°	1174.9	1240.0	1284.6	1319.7	1326.5	1333.4	1326.5	1319.7	1284.6	1240.0	1174.9
42.5°	1136.6	1203.0	1247.6	1282.7	1289.5	1296.4	1289.5	1282.7	1247.6	1203.0	1136.6
45°	1073.0	1141.5	1189.5	1226.3	1229.8	1233.2	1229.8	1226.3	1189.5	1141.5	1073.0
47.5°	1013.9	1082.8	1127.3	1161.6	1165.0	1168.4	1165.0	1161.6	1127.3	1082.8	1013.9
50°	969.4	1039.6	1084.2	1118.4	1121.9	1125.3	1121.9	1118.4	1084.2	1039.6	969.4
52.5°	926.9	999.9	1039.0	1069.1	1072.5	1075.9	1072.5	1069.1	1039.0	999.9	926.9
55°	851.2	928.3	966.0	994.3	994.3	994.3	994.3	966.0	928.3	851.2	
57.5°	772.8	851.9	884.8	910.5	914.6	918.7	914.6	910.5	884.8	851.9	772.8
60°	719.4	799.9	827.3	849.5	856.4	863.2	856.4	849.5	827.3	799.9	719.4
62.5°	666.6	744.4	771.8	793.3	797.5	801.6	797.5	793.3	771.8	744.4	666.6
65°	584.9	653.4	680.8	702.2	705.7	709.1	705.7	702.2	680.8	653.4	584.9
67.5°	509.9	566.1	585.2	600.3	603.1	605.8	603.1	600.3	585.2	566.1	509.9
70°	459.9	507.8	521.5	531.8	531.8	531.8	531.8	521.5	507.8	459.9	
72.5°	400.3	440.0	453.7	464.7	467.4	470.1	467.4	453.7	440.0	400.3	
75°	315.1	344.3	354.5	363.1	366.5	370.0	366.5	363.1	354.5	344.3	315.1
77.5°	230.5	249.7	255.9	261.4	264.8	268.2	264.8	261.4	255.9	249.7	230.5
80°	173.0	186.7	190.1	193.5	197.0	200.4	197.0	193.5	190.1	186.7	173.0
82.5°	121.6	131.2	134.6	137.4	138.0	138.7	138.0	137.4	134.6	131.2	121.6
85°	58.2	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	58.2
87.5°	15.5	16.5	17.5	18.0	18.6	18.3	18.6	18.0	17.5	16.5	15.5
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: P1435786

CATALOG NUMBER: SQ2W-FA-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: P1435786

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1988.5	1988.5	1988.5	1988.5
2.5°	1965.9	1976.2	1976.2	1976.2
5°	1893.4	1937.1	1947.4	1957.7
7.5°	1750.1	1847.4	1893.3	1939.2
10°	1649.4	1741.9	1834.4	1926.8
12.5°	1563.1	1646.6	1777.5	1908.3
15°	1492.7	1562.9	1710.2	1857.5
17.5°	1440.8	1486.0	1640.1	1794.3
20°	1428.4	1449.0	1603.1	1757.3
22.5°	1405.8	1405.1	1556.5	1708.0
25°	1366.8	1343.7	1477.2	1610.8
27.5°	1319.5	1281.1	1386.6	1492.1
30°	1284.6	1240.0	1329.1	1418.2
32.5°	1243.5	1196.9	1261.3	1325.7
35°	1186.9	1132.1	1159.5	1186.9
37.5°	1132.5	1066.0	1057.1	1048.2
40°	1089.3	1017.4	986.5	955.7
42.5°	1048.2	973.5	940.0	906.4
45°	984.0	912.0	891.5	870.9
47.5°	920.8	847.1	832.1	817.0
50°	873.5	796.4	775.9	755.3
52.5°	820.1	736.8	724.5	712.2
55°	734.8	650.0	660.3	670.5
57.5°	647.4	555.6	564.5	573.4
60°	585.8	489.8	507.0	524.1
62.5°	538.5	445.3	457.0	468.6
65°	475.3	391.4	384.5	377.7
67.5°	416.7	341.2	318.6	296.0
70°	377.7	308.3	277.5	246.6
72.5°	334.5	277.5	246.6	215.8
75°	267.2	223.5	192.7	161.9
77.5°	198.3	167.8	142.5	117.2
80°	149.0	126.7	109.6	92.5
82.5°	105.8	90.4	76.0	61.7
85°	51.4	44.5	37.7	30.8
87.5°	14.8	13.2	9.9	6.6
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: P1435786

CATALOG NUMBER: SQ2W-FA-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: P1435786  
 CATALOG NUMBER: SQ2W-FA-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	20.18	21.27	20.94	22.04	22.98	21.38	22.47	22.14	23.24	24.18
	3H	21.29	22.26	22.06	23.05	24.01	22.64	23.62	23.41	24.40	25.37
	4H	21.65	22.57	22.44	23.37	24.34	23.04	23.96	23.83	24.76	25.73
	6H	21.83	22.67	22.62	23.48	24.47	23.22	24.06	24.01	24.87	25.86
	8H	21.87	22.67	22.67	23.50	24.49	23.25	24.06	24.05	24.88	25.87
	12H	21.87	22.64	22.68	23.46	24.47	23.24	24.01	24.05	24.82	25.84
4H	2H	21.08	22.00	21.87	22.79	23.77	21.99	22.91	22.78	23.71	24.68
	3H	22.49	23.25	23.29	24.08	25.08	23.48	24.24	24.28	25.07	26.07
	4H	22.95	23.65	23.77	24.48	25.50	23.96	24.66	24.78	25.49	26.51
	6H	23.20	23.80	24.03	24.65	25.68	24.20	24.80	25.03	25.65	26.68
	8H	23.26	23.82	24.09	24.67	25.71	24.25	24.81	25.09	25.66	26.70
	12H	23.27	23.78	24.13	24.64	25.69	24.25	24.76	25.11	25.63	26.67
8H	4H	23.35	23.92	24.19	24.76	25.80	24.18	24.74	25.01	25.59	26.63
	6H	23.71	24.18	24.58	25.07	26.11	24.50	24.97	25.37	25.85	26.89
	8H	23.83	24.25	24.71	25.13	26.19	24.60	25.01	25.47	25.90	26.95
	12H	23.88	24.25	24.76	25.12	26.23	24.62	24.99	25.50	25.86	26.97
12H	4H	23.37	23.87	24.22	24.74	25.79	24.16	24.66	25.01	25.53	26.58
	6H	23.79	24.20	24.66	25.08	26.14	24.52	24.93	25.40	25.82	26.87
	8H	23.94	24.31	24.82	25.18	26.29	24.65	25.01	25.52	25.88	27.00