

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: P1435782

Luminaire Tested: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435782  
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-L835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

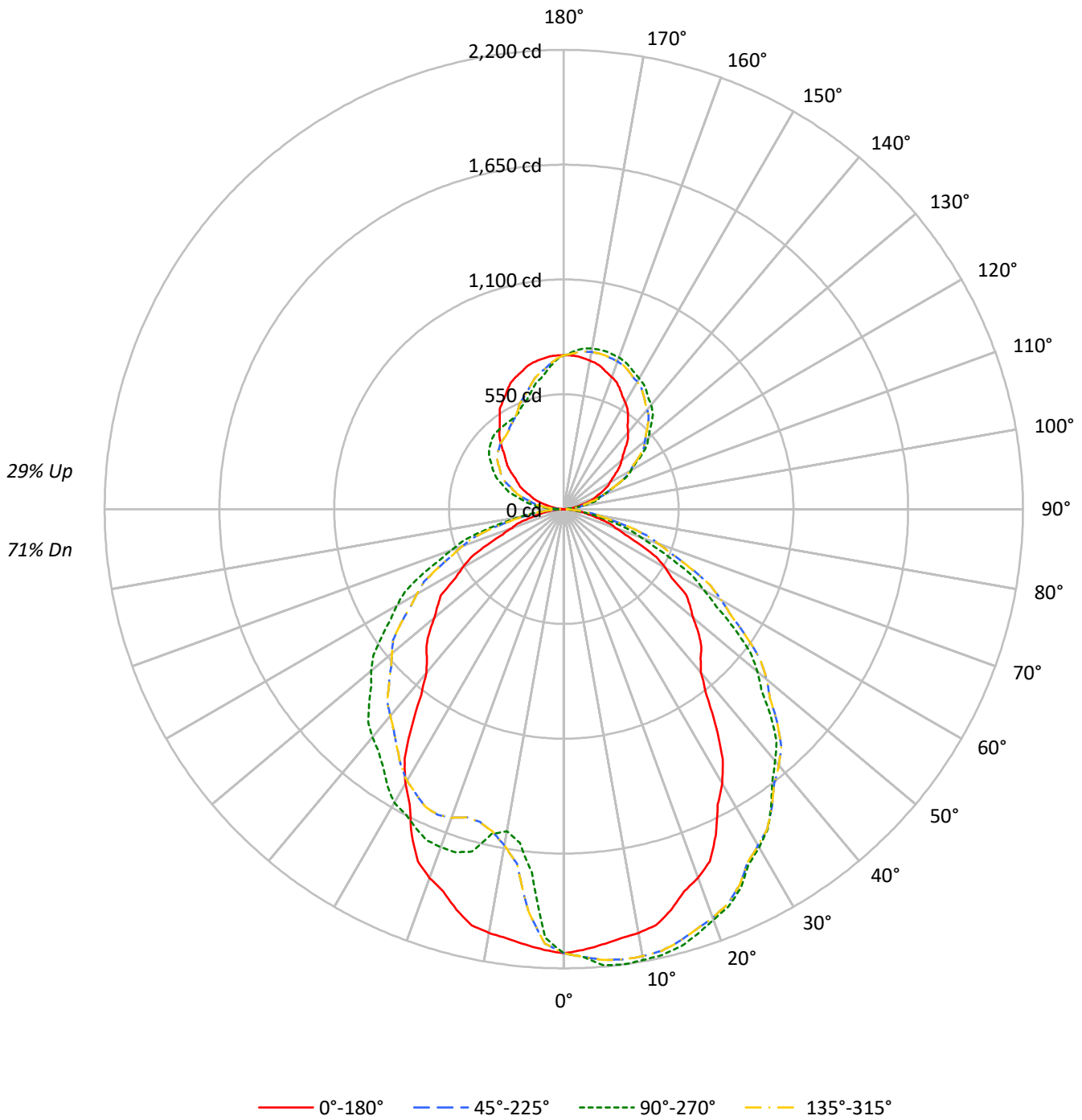
Lumens per Lamp: N/A  
Luminaire Lumens: 7437.3 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (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

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CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-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	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°	34348	34348	34348	34348
5°	33944	35549	33944	28332
10°	33798	35960	33798	25685
15°	33216	36250	33216	28392
20°	32302	35985	32302	29611
25°	30702	35695	30702	29966
30°	28286	34896	28286	30284
35°	25030	34130	25030	29743
40°	21551	33196	21551	30066
45°	21276	32008	21276	30124
50°	20298	30446	20298	30240
55°	20194	28084	20194	29942
60°	18106	25029	18106	29821
65°	15434	22051	15434	28981
70°	12458	18684	12458	26860
75°	10804	15433	10804	24691
80°	9196	11501	9196	19935
85°	6113	6113	6113	12226

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33012 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	2.6
10°-20°	534.9	7.2
20°-30°	812.3	10.9
30°-40°	953.6	12.8
40°-50°	967.8	13.0
50°-60°	847.7	11.4
60°-70°	601.2	8.1
70°-80°	309.6	4.2
80°-90°	68.0	0.9
90°-100°	58.6	0.8
100°-110°	171.0	2.3
110°-120°	279.0	3.8
120°-130°	354.0	4.8
130°-140°	378.8	5.1
140°-150°	353.8	4.8
150°-160°	291.1	3.9
160°-170°	195.2	2.6
170°-180°	69.3	0.9
0°-30°	1538.5	20.7
0°-40°	2492.2	33.5
0°-60°	4307.6	57.9
0°-90°	5286.4	71.1
90°-120°	508.6	6.8
90°-150°	1595.3	21.4
90°-180°	2151.0	28.9
0°-180°	7437.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2127	2127	2127	2127	2127	
5°	2094	2193	2094	1748	2094	199
15°	1987	2169	1987	1699	1987	558
25°	1723	2004	1723	1682	1723	787
35°	1270	1732	1270	1509	1270	791
45°	932	1402	932	1319	932	712
55°	717	998	717	1064	717	621
65°	404	577	404	759	404	403
75°	173	247	173	396	173	187
85°	33	33	33	66	33	41
90°	2	16	2	32	2	3
95°	23	17	23	100	23	28
105°	109	174	109	240	109	116
115°	208	289	208	356	208	205
125°	308	458	308	436	308	276
135°	419	599	419	483	419	324
145°	535	690	535	493	535	335
155°	636	750	636	512	636	292
165°	702	782	702	589	702	198
175°	734	766	734	691	734	70
180°	737	737	737	737	737	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2114.2	2128.9	2143.5	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
5°	2094.4	2120.1	2145.7	2157.7	2165.0	2170.5	2174.1	2178.7	2186.1	2193.4	2186.1
7.5°	2074.6	2109.1	2143.5	2160.4	2171.4	2180.2	2186.8	2192.7	2196.3	2200.0	2196.3
10°	2061.5	2101.8	2142.1	2160.4	2171.4	2178.7	2182.4	2186.1	2189.7	2193.4	2189.7
12.5°	2041.7	2084.9	2128.2	2149.4	2163.3	2172.1	2175.8	2179.5	2183.1	2186.8	2183.1
15°	1987.2	2045.9	2104.5	2127.4	2138.4	2147.6	2154.9	2161.3	2165.0	2168.7	2165.0
17.5°	1919.6	1990.7	2061.8	2090.6	2105.3	2115.9	2122.5	2128.2	2131.1	2134.0	2131.1
20°	1880.0	1957.0	2034.0	2064.2	2078.9	2088.0	2091.7	2094.4	2094.4	2094.4	2094.4
22.5°	1827.3	1913.0	1998.8	2031.2	2045.9	2053.6	2054.3	2055.6	2058.5	2061.5	2058.5
25°	1723.4	1822.3	1921.3	1962.5	1984.5	1993.7	1990.0	1989.1	1996.4	2003.7	1996.4
27.5°	1596.4	1721.0	1845.6	1887.7	1902.4	1911.6	1915.2	1918.0	1918.0	1918.0	1918.0
30°	1517.2	1656.5	1795.8	1841.6	1856.2	1865.4	1869.1	1871.8	1871.8	1871.8	1871.8
32.5°	1418.3	1583.9	1749.6	1799.8	1811.5	1817.7	1818.5	1819.0	1819.0	1819.0	1819.0
35°	1269.9	1471.4	1673.0	1728.9	1736.2	1739.9	1739.9	1739.0	1735.3	1731.6	1735.3
37.5°	1121.4	1350.1	1578.8	1644.2	1655.2	1658.1	1653.0	1648.2	1644.6	1640.9	1644.6
40°	1022.5	1271.7	1520.9	1591.4	1602.4	1602.4	1591.4	1582.3	1578.6	1575.0	1578.6
42.5°	969.7	1216.0	1462.3	1532.1	1543.1	1541.6	1527.7	1516.3	1512.7	1509.0	1512.7
45°	931.8	1151.7	1371.6	1434.8	1445.8	1443.9	1429.3	1416.4	1409.1	1401.8	1409.1
47.5°	874.1	1067.6	1261.1	1323.2	1341.5	1339.7	1317.7	1299.4	1292.0	1284.7	1292.0
50°	808.1	998.7	1189.2	1250.6	1268.9	1267.1	1245.1	1226.8	1219.5	1212.1	1219.5
52.5°	761.9	940.8	1119.6	1175.9	1191.2	1186.5	1161.6	1141.0	1133.7	1126.4	1133.7
55°	717.4	867.6	1017.9	1063.7	1074.7	1067.4	1041.7	1019.7	1008.7	997.7	1008.7
57.5°	613.5	756.4	899.3	943.9	955.6	946.8	917.5	892.4	879.9	867.5	879.9
60°	560.7	689.0	817.3	860.3	875.0	867.6	838.3	811.8	793.4	775.1	793.4
62.5°	501.3	615.0	728.6	772.4	792.9	788.5	759.2	732.6	714.3	695.9	714.3
65°	404.0	503.0	601.9	645.9	671.6	669.7	640.4	613.9	595.5	577.2	595.5
67.5°	316.6	401.7	486.7	529.9	559.2	557.8	525.5	497.7	483.0	468.4	483.0
70°	263.9	337.2	410.5	450.8	480.1	480.1	450.8	425.1	410.5	395.8	410.5
72.5°	230.9	286.6	342.3	380.4	412.7	412.7	380.4	353.3	341.6	329.8	341.6
75°	173.2	206.1	239.1	274.9	311.5	315.2	285.9	262.0	254.7	247.4	254.7
77.5°	125.3	140.7	156.1	184.2	216.4	220.1	195.2	175.7	172.8	169.9	172.8
80°	98.9	102.6	106.3	129.2	158.5	162.2	140.2	123.7	123.7	123.7	123.7
82.5°	66.0	69.6	73.3	89.6	110.1	112.3	96.2	83.4	80.4	77.5	80.4
85°	33.0	33.0	33.0	38.5	45.8	45.8	38.5	33.0	33.0	33.0	33.0
87.5°	7.0	7.6	8.4	11.2	14.6	14.7	11.8	9.7	9.9	9.9	9.9
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.3	18.5	18.6	19.3	19.3	19.3
95°	23.1	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.1	47.3	49.4	66.2	69.9	67.6	55.1	46.3	41.4	39.1	41.4
100°	62.5	64.0	68.5	69.2	87.8	105.7	96.7	85.6	81.9	79.6	81.9
102.5°	81.0	81.9	88.7	91.8	96.1	106.3	137.2	133.8	131.3	130.8	131.3
105°	108.6	109.4	122.0	128.0	131.0	131.0	130.2	145.1	168.9	174.1	168.9
107.5°	138.3	141.7	156.6	172.5	175.9	176.8	172.9	170.7	169.8	170.4	169.8
110°	158.5	163.7	181.6	201.7	206.9	208.3	206.9	204.6	203.1	203.1	203.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.1	185.7	206.0	229.0	237.8	242.3	239.0	237.4	235.9	237.1	235.9
115°	208.3	219.5	246.3	270.1	288.0	290.2	289.5	289.5	288.7	288.7	288.7
117.5°	236.3	254.2	284.2	311.9	332.6	338.6	341.5	340.6	339.8	341.2	339.8
120°	256.0	276.8	311.0	342.3	362.4	371.3	374.3	372.8	374.3	372.8	374.3
122.5°	276.8	302.4	336.0	368.5	392.1	402.3	405.8	406.1	406.4	405.5	406.4
125°	308.1	339.3	378.7	412.2	436.8	448.7	451.7	452.4	453.9	457.6	453.9
127.5°	339.6	375.0	418.3	450.6	475.8	490.2	494.8	496.5	499.6	501.2	499.6
130°	361.6	401.8	445.7	476.2	500.8	516.4	524.6	526.8	530.5	529.8	530.5
132.5°	384.8	426.8	471.3	503.0	525.8	542.6	549.6	556.0	557.3	558.4	557.3
135°	418.9	464.3	509.0	540.2	561.8	578.2	587.1	593.0	596.8	599.0	596.8
137.5°	454.8	502.7	545.6	573.4	595.1	609.3	619.4	625.6	629.5	631.3	629.5
140°	479.2	525.3	567.0	596.0	615.4	629.5	638.4	645.9	650.3	650.3	650.3
142.5°	502.4	548.0	588.4	617.5	634.4	647.4	656.9	662.5	667.6	667.6	667.6
145°	535.0	580.4	617.6	646.6	660.8	672.7	683.1	687.5	690.5	690.5	690.5
147.5°	569.1	609.3	643.2	671.0	682.9	696.9	705.1	708.7	712.4	710.8	712.4
150°	589.3	626.5	659.3	685.3	697.2	710.6	718.8	721.8	725.5	723.3	725.5
152.5°	609.0	644.4	674.2	698.4	708.5	721.9	731.3	734.3	736.8	735.2	736.8
155°	635.5	666.7	694.2	716.6	725.5	738.1	747.1	750.8	753.8	750.0	753.8
157.5°	659.1	686.1	710.0	730.6	740.1	750.9	759.3	763.9	766.9	765.2	766.9
160°	673.4	698.0	719.5	738.9	747.8	757.5	766.4	771.6	774.6	772.4	774.6
162.5°	685.3	707.5	727.9	745.4	753.2	761.7	772.4	777.0	780.0	777.1	780.0
165°	702.4	720.3	738.1	753.0	759.7	766.4	777.6	782.8	785.0	782.0	785.0
167.5°	715.4	729.1	743.5	756.3	761.2	767.8	778.9	783.2	786.1	782.3	786.1
170°	722.5	734.4	747.1	757.5	761.2	767.2	778.3	782.0	784.3	780.6	784.3
172.5°	728.5	737.4	747.7	756.9	758.8	763.6	774.2	777.9	779.5	776.4	779.5
175°	734.4	739.6	747.1	753.0	752.3	755.3	764.2	767.2	770.1	765.7	770.1
177.5°	737.3	739.6	742.0	745.6	743.2	743.2	749.8	751.5	752.1	749.8	752.1
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2147.2	2147.2	2147.2	2147.2	2147.2	2143.5	2128.9	2114.2	2114.2	2114.2	2103.2
5°	2178.7	2174.1	2170.5	2165.0	2157.7	2145.7	2120.1	2094.4	2083.4	2072.4	2025.7
7.5°	2192.7	2186.8	2180.2	2171.4	2160.4	2143.5	2109.1	2074.6	2025.5	1976.4	1872.4
10°	2186.1	2182.4	2178.7	2171.4	2160.4	2142.1	2101.8	2061.5	1962.5	1863.6	1764.6
12.5°	2179.5	2175.8	2172.1	2163.3	2149.4	2128.2	2084.9	2041.7	1901.7	1761.7	1672.3
15°	2161.3	2154.9	2147.6	2138.4	2127.4	2104.5	2045.9	1987.2	1829.7	1672.1	1596.9
17.5°	2128.2	2122.5	2115.9	2105.3	2090.6	2061.8	1990.7	1919.6	1754.7	1589.8	1541.4
20°	2094.4	2091.7	2088.0	2078.9	2064.2	2034.0	1957.0	1880.0	1715.1	1550.2	1528.2
22.5°	2055.6	2054.3	2053.6	2045.9	2031.2	1998.8	1913.0	1827.3	1665.3	1503.3	1504.0
25°	1989.1	1990.0	1993.7	1984.5	1962.5	1921.3	1822.3	1723.4	1580.4	1437.5	1462.3
27.5°	1918.0	1915.2	1911.6	1902.4	1887.7	1845.6	1721.0	1596.4	1483.5	1370.6	1411.7
30°	1871.8	1869.1	1865.4	1856.2	1841.6	1795.8	1656.5	1517.2	1421.9	1326.7	1374.3
32.5°	1819.0	1818.5	1817.7	1811.5	1799.8	1749.6	1583.9	1418.3	1349.4	1280.5	1330.3
35°	1739.0	1739.9	1739.9	1736.2	1728.9	1673.0	1471.4	1269.9	1240.5	1211.2	1269.9
37.5°	1648.2	1653.0	1658.1	1655.2	1644.2	1578.8	1350.1	1121.4	1131.0	1140.5	1211.6
40°	1582.3	1591.4	1602.4	1602.4	1591.4	1520.9	1271.7	1022.5	1055.5	1088.4	1165.4
42.5°	1516.3	1527.7	1541.6	1543.1	1532.1	1462.3	1216.0	969.7	1005.6	1041.5	1121.4
45°	1416.4	1429.3	1443.9	1445.8	1434.8	1371.6	1151.7	931.8	953.8	975.8	1052.7
47.5°	1299.4	1317.7	1339.7	1341.5	1323.2	1261.1	1067.6	874.1	890.2	906.3	985.1
50°	1226.8	1245.1	1267.1	1268.9	1250.6	1189.2	998.7	808.1	830.1	852.1	934.5
52.5°	1141.0	1161.6	1186.5	1191.2	1175.9	1119.6	940.8	761.9	775.1	788.3	877.4
55°	1019.7	1041.7	1067.4	1074.7	1063.7	1017.9	867.6	717.4	706.4	695.4	786.1
57.5°	892.4	917.5	946.8	955.6	943.9	899.3	756.4	613.5	604.0	594.4	692.6
60°	811.8	838.3	867.6	875.0	860.3	817.3	689.0	560.7	542.4	524.1	626.7
62.5°	732.6	759.2	788.5	792.9	772.4	728.6	615.0	501.3	488.9	476.4	576.1
65°	613.9	640.4	669.7	671.6	645.9	601.9	503.0	404.0	411.4	418.7	508.5
67.5°	497.7	525.5	557.8	559.2	529.9	486.7	401.7	316.6	340.8	365.0	445.8
70°	425.1	450.8	480.1	480.1	450.8	410.5	337.2	263.9	296.8	329.8	404.0
72.5°	353.3	380.4	412.7	412.7	380.4	342.3	286.6	230.9	263.9	296.8	357.9
75°	262.0	285.9	315.2	311.5	274.9	239.1	206.1	173.2	206.1	239.1	285.9
77.5°	175.7	195.2	220.1	216.4	184.2	156.1	140.7	125.3	152.5	179.6	212.2
80°	123.7	140.2	162.2	158.5	129.2	106.3	102.6	98.9	117.3	135.6	159.4
82.5°	83.4	96.2	112.3	110.1	89.6	73.3	69.6	66.0	81.4	96.8	113.2
85°	33.0	38.5	45.8	45.8	38.5	33.0	33.0	33.0	40.3	47.6	55.0
87.5°	9.7	11.8	14.7	14.6	11.2	8.4	7.6	7.0	10.6	14.1	15.9
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.5	17.3	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.9
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.1	32.7	46.1	58.0
97.5°	46.3	55.1	67.6	69.9	66.2	49.4	47.3	44.1	60.0	73.2	92.4
100°	85.6	96.7	105.7	87.8	69.2	68.5	64.0	62.5	79.6	92.3	110.9
102.5°	133.8	137.2	106.3	96.1	91.8	88.7	81.9	81.0	98.1	115.5	131.1
105°	145.1	130.2	131.0	131.0	128.0	122.0	109.4	108.6	128.0	148.1	167.4
107.5°	170.7	172.9	176.8	175.9	172.5	156.6	141.7	138.3	155.7	179.8	201.1
110°	204.6	206.9	208.3	206.9	201.7	181.6	163.7	158.5	174.1	199.4	222.5



TEST NUMBER: P1435782

CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.4	239.0	242.3	237.8	229.0	206.0	185.7	178.1	193.8	219.7	243.3
115°	289.5	289.5	290.2	288.0	270.1	246.3	219.5	208.3	221.7	245.6	271.6
117.5°	340.6	341.5	338.6	332.6	311.9	284.2	254.2	236.3	246.9	272.0	298.8
120°	372.8	374.3	371.3	362.4	342.3	311.0	276.8	256.0	264.2	288.7	315.5
122.5°	406.1	405.8	402.3	392.1	368.5	336.0	302.4	276.8	280.2	303.0	329.2
125°	452.4	451.7	448.7	436.8	412.2	378.7	339.3	308.1	303.6	322.9	349.7
127.5°	496.5	494.8	490.2	475.8	450.6	418.3	375.0	339.6	329.6	341.8	366.4
130°	526.8	524.6	516.4	500.8	476.2	445.7	401.8	361.6	347.5	354.9	376.5
132.5°	556.0	549.6	542.6	525.8	503.0	471.3	426.8	384.8	365.4	368.6	385.4
135°	593.0	587.1	578.2	561.8	540.2	509.0	464.3	418.9	392.1	389.2	398.8
137.5°	625.6	619.4	609.3	595.1	573.4	545.6	502.7	454.8	421.0	411.0	414.8
140°	645.9	638.4	629.5	615.4	596.0	567.0	525.3	479.2	441.2	427.1	424.9
142.5°	662.5	656.9	647.4	634.4	617.5	588.4	548.0	502.4	462.1	443.8	438.6
145°	687.5	683.1	672.7	660.8	646.6	617.6	580.4	535.0	494.8	471.0	459.9
147.5°	708.7	705.1	696.9	682.9	671.0	643.2	609.3	569.1	527.9	498.4	484.0
150°	721.8	718.8	710.6	697.2	685.3	659.3	626.5	589.3	549.9	518.6	500.0
152.5°	734.3	731.3	721.9	708.5	698.4	674.2	644.4	609.0	568.9	537.7	518.5
155°	750.8	747.1	738.1	725.5	716.6	694.2	666.7	635.5	601.2	568.5	546.9
157.5°	763.9	759.3	750.9	740.1	730.6	710.0	686.1	659.1	629.2	598.0	575.9
160°	771.6	766.4	757.5	747.8	738.9	719.5	698.0	673.4	645.9	617.6	593.8
162.5°	777.0	772.4	761.7	753.2	745.4	727.9	707.5	685.3	660.8	636.1	614.0
165°	782.8	777.6	766.4	759.7	753.0	738.1	720.3	702.4	681.6	661.5	643.6
167.5°	783.2	778.9	767.8	761.2	756.3	743.5	729.1	715.4	699.2	683.4	668.5
170°	782.0	778.3	767.2	761.2	757.5	747.1	734.4	722.5	709.9	696.5	684.6
172.5°	777.9	774.2	763.6	758.8	756.9	747.7	737.4	728.5	717.6	707.8	698.3
175°	767.2	764.2	755.3	752.3	753.0	747.1	739.6	734.4	727.7	721.8	716.6
177.5°	751.5	749.8	743.2	743.2	745.6	742.0	739.6	737.3	734.3	732.5	730.7
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



TEST NUMBER: P1435782

CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4	2127.4
2.5°	2088.6	2076.8	2068.1	2060.7	2057.8	2054.9	2057.8	2060.7	2068.1	2076.8	2088.6
5°	1967.1	1904.8	1838.8	1784.8	1766.4	1748.1	1766.4	1784.8	1838.8	1904.8	1967.1
7.5°	1749.9	1674.8	1647.0	1624.6	1618.7	1612.9	1618.7	1624.6	1647.0	1674.8	1749.9
10°	1665.7	1605.2	1583.2	1566.7	1566.7	1566.7	1566.7	1566.7	1583.2	1605.2	1665.7
12.5°	1599.7	1562.7	1561.2	1563.8	1578.4	1593.1	1578.4	1563.8	1561.2	1562.7	1599.7
15°	1549.3	1554.8	1613.4	1662.0	1680.3	1698.6	1680.3	1662.0	1613.4	1554.8	1549.3
17.5°	1531.9	1563.4	1636.0	1694.1	1708.7	1723.4	1708.7	1694.1	1636.0	1563.4	1531.9
20°	1553.9	1594.2	1649.2	1694.1	1708.7	1723.4	1708.7	1694.1	1649.2	1594.2	1553.9
22.5°	1559.0	1608.1	1651.4	1687.5	1702.1	1716.8	1702.1	1687.5	1651.4	1608.1	1559.0
25°	1542.9	1601.5	1638.2	1667.5	1674.8	1682.1	1674.8	1667.5	1638.2	1601.5	1542.9
27.5°	1504.0	1568.5	1605.2	1634.0	1639.1	1644.2	1639.1	1634.0	1605.2	1568.5	1504.0
30°	1469.6	1535.6	1572.2	1602.4	1613.4	1624.4	1613.4	1602.4	1572.2	1535.6	1469.6
32.5°	1419.7	1487.2	1532.6	1567.3	1569.5	1571.7	1569.5	1567.3	1532.6	1487.2	1419.7
35°	1357.8	1427.4	1478.8	1516.3	1512.7	1509.0	1512.7	1516.3	1478.8	1427.4	1357.8
37.5°	1303.2	1371.4	1416.1	1450.7	1455.1	1459.5	1455.1	1450.7	1416.1	1371.4	1303.2
40°	1257.0	1326.7	1374.3	1411.9	1419.2	1426.5	1419.2	1411.9	1374.3	1326.7	1257.0
42.5°	1216.0	1287.1	1334.7	1372.3	1379.6	1386.9	1379.6	1372.3	1334.7	1287.1	1216.0
45°	1148.0	1221.3	1272.6	1312.0	1315.7	1319.3	1315.7	1312.0	1272.6	1221.3	1148.0
47.5°	1084.8	1158.4	1206.1	1242.7	1246.4	1250.1	1246.4	1242.7	1206.1	1158.4	1084.8
50°	1037.1	1112.3	1159.9	1196.6	1200.2	1203.9	1200.2	1196.6	1159.9	1112.3	1037.1
52.5°	991.7	1069.8	1111.5	1143.8	1147.5	1151.1	1147.5	1143.8	1111.5	1069.8	991.7
55°	910.7	993.2	1033.5	1063.7	1063.7	1063.7	1063.7	1063.7	1033.5	993.2	910.7
57.5°	826.8	911.4	946.6	974.1	978.5	982.9	978.5	974.1	946.6	911.4	826.8
60°	769.6	855.7	885.1	908.9	916.2	923.5	916.2	908.9	885.1	855.7	769.6
62.5°	713.2	796.4	825.7	848.8	853.2	857.6	853.2	848.8	825.7	796.4	713.2
65°	625.8	699.1	728.4	751.3	755.0	758.6	755.0	751.3	728.4	699.1	625.8
67.5°	545.5	605.6	626.1	642.3	645.2	648.1	645.2	642.3	626.1	605.6	545.5
70°	492.0	543.3	558.0	569.0	569.0	569.0	569.0	569.0	558.0	543.3	492.0
72.5°	428.2	470.7	485.4	497.1	500.1	503.0	500.1	497.1	485.4	470.7	428.2
75°	337.2	368.3	379.3	388.5	392.1	395.8	392.1	388.5	379.3	368.3	337.2
77.5°	246.6	267.2	273.8	279.6	283.3	287.0	283.3	279.6	273.8	267.2	246.6
80°	185.1	199.7	203.4	207.1	210.7	214.4	210.7	207.1	203.4	199.7	185.1
82.5°	130.1	140.4	144.0	147.0	147.7	148.4	147.7	147.0	144.0	140.4	130.1
85°	62.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	62.3
87.5°	16.6	17.7	18.7	19.3	19.9	19.6	19.9	19.3	18.7	17.7	16.6
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	22.3	17.1	17.1
92.5°	34.4	43.2	49.6	54.9	57.3	57.0	57.3	54.9	49.6	43.2	34.4
95°	69.2	79.6	90.0	97.5	101.9	100.5	101.9	97.5	90.0	79.6	69.2
97.5°	106.7	120.7	132.3	139.3	143.8	146.7	143.8	139.3	132.3	120.7	106.7
100°	131.7	145.1	158.5	166.7	174.1	177.1	174.1	166.7	158.5	145.1	131.7
102.5°	151.9	169.5	184.1	192.9	199.1	202.1	199.1	192.9	184.1	169.5	151.9
105°	185.3	203.9	219.5	230.7	237.4	239.6	237.4	230.7	219.5	203.9	185.3
107.5°	218.6	237.8	252.2	264.6	272.8	277.5	272.8	264.6	252.2	237.8	218.6
110°	244.8	260.4	276.1	287.2	295.4	298.4	295.4	287.2	276.1	260.4	244.8



TEST NUMBER: P1435782

CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.8	284.2	299.9	311.0	320.4	324.6	320.4	311.0	299.9	284.2	266.8
115°	297.6	320.7	334.8	345.3	352.0	355.7	352.0	345.3	334.8	320.7	297.6
117.5°	323.2	347.3	362.8	370.9	374.0	376.7	374.0	370.9	362.8	347.3	323.2
120°	339.3	361.6	379.5	389.9	393.6	395.1	393.6	389.9	379.5	361.6	339.3
122.5°	354.2	375.3	392.6	405.4	411.5	413.0	411.5	405.4	392.6	375.3	354.2
125°	375.0	395.1	413.0	425.6	432.3	436.0	432.3	425.6	413.0	395.1	375.0
127.5°	393.2	414.9	431.3	442.7	449.3	452.3	449.3	442.7	431.3	414.9	393.2
130°	403.3	425.6	442.0	454.6	460.6	463.6	460.6	454.6	442.0	425.6	403.3
132.5°	411.0	434.6	451.5	463.0	469.5	472.5	469.5	463.0	451.5	434.6	411.0
135°	420.4	445.0	462.8	474.0	479.9	482.9	479.9	474.0	462.8	445.0	420.4
137.5°	428.6	450.9	469.5	481.3	486.6	488.6	486.6	481.3	469.5	450.9	428.6
140°	434.6	453.9	472.5	483.7	489.6	490.4	489.6	483.7	472.5	453.9	434.6
142.5°	442.3	457.5	473.7	484.9	490.8	492.1	490.8	484.9	473.7	457.5	442.3
145°	456.1	465.1	476.2	486.6	491.8	493.3	491.8	486.6	476.2	465.1	456.1
147.5°	473.5	476.4	482.2	489.0	494.1	495.1	494.1	489.0	482.2	476.4	473.5
150°	486.6	485.9	488.1	492.6	497.1	496.3	497.1	492.6	488.1	485.9	486.6
152.5°	501.5	497.2	497.1	499.1	501.2	501.1	501.2	499.1	497.1	497.2	501.5
155°	526.8	518.6	514.2	512.7	512.7	511.9	512.7	512.7	514.2	518.6	526.8
157.5°	554.6	543.2	536.5	532.9	531.9	530.2	531.9	532.9	536.5	543.2	554.6
160°	573.7	561.0	554.4	548.4	546.2	543.9	546.2	548.4	554.4	561.0	573.7
162.5°	591.6	579.5	572.2	566.9	564.6	561.2	564.6	566.9	572.2	579.5	591.6
165°	620.6	607.9	599.7	595.3	592.3	589.3	592.3	595.3	599.7	607.9	620.6
167.5°	649.6	635.8	630.4	625.3	622.5	617.2	622.5	625.3	630.4	635.8	649.6
170°	667.5	654.8	651.8	647.4	642.2	636.2	642.2	647.4	651.8	654.8	667.5
172.5°	682.9	674.4	671.5	667.0	665.4	660.6	665.4	667.0	671.5	674.4	682.9
175°	705.4	698.7	698.7	698.0	695.7	691.3	695.7	698.0	698.7	698.7	705.4
177.5°	724.2	720.6	723.0	723.0	722.4	718.2	722.4	723.0	723.0	720.6	724.2
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



TEST NUMBER: P1435782

CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2127.4	2127.4	2127.4	2127.4
2.5°	2103.2	2114.2	2114.2	2114.2
5°	2025.7	2072.4	2083.4	2094.4
7.5°	1872.4	1976.4	2025.5	2074.6
10°	1764.6	1863.6	1962.5	2061.5
12.5°	1672.3	1761.7	1901.7	2041.7
15°	1596.9	1672.1	1829.7	1987.2
17.5°	1541.4	1589.8	1754.7	1919.6
20°	1528.2	1550.2	1715.1	1880.0
22.5°	1504.0	1503.3	1665.3	1827.3
25°	1462.3	1437.5	1580.4	1723.4
27.5°	1411.7	1370.6	1483.5	1596.4
30°	1374.3	1326.7	1421.9	1517.2
32.5°	1330.3	1280.5	1349.4	1418.3
35°	1269.9	1211.2	1240.5	1269.9
37.5°	1211.6	1140.5	1131.0	1121.4
40°	1165.4	1088.4	1055.5	1022.5
42.5°	1121.4	1041.5	1005.6	969.7
45°	1052.7	975.8	953.8	931.8
47.5°	985.1	906.3	890.2	874.1
50°	934.5	852.1	830.1	808.1
52.5°	877.4	788.3	775.1	761.9
55°	786.1	695.4	706.4	717.4
57.5°	692.6	594.4	604.0	613.5
60°	626.7	524.1	542.4	560.7
62.5°	576.1	476.4	488.9	501.3
65°	508.5	418.7	411.4	404.0
67.5°	445.8	365.0	340.8	316.6
70°	404.0	329.8	296.8	263.9
72.5°	357.9	296.8	263.9	230.9
75°	285.9	239.1	206.1	173.2
77.5°	212.2	179.6	152.5	125.3
80°	159.4	135.6	117.3	98.9
82.5°	113.2	96.8	81.4	66.0
85°	55.0	47.6	40.3	33.0
87.5°	15.9	14.1	10.6	7.0
90°	13.4	8.2	5.2	2.2
92.5°	28.9	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.1
97.5°	92.4	73.2	60.0	44.1
100°	110.9	92.3	79.6	62.5
102.5°	131.1	115.5	98.1	81.0
105°	167.4	148.1	128.0	108.6
107.5°	201.1	179.8	155.7	138.3
110°	222.5	199.4	174.1	158.5



TEST NUMBER: P1435782

CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	243.3	219.7	193.8	178.1
115°	271.6	245.6	221.7	208.3
117.5°	298.8	272.0	246.9	236.3
120°	315.5	288.7	264.2	256.0
122.5°	329.2	303.0	280.2	276.8
125°	349.7	322.9	303.6	308.1
127.5°	366.4	341.8	329.6	339.6
130°	376.5	354.9	347.5	361.6
132.5°	385.4	368.6	365.4	384.8
135°	398.8	389.2	392.1	418.9
137.5°	414.8	411.0	421.0	454.8
140°	424.9	427.1	441.2	479.2
142.5°	438.6	443.8	462.1	502.4
145°	459.9	471.0	494.8	535.0
147.5°	484.0	498.4	527.9	569.1
150°	500.0	518.6	549.9	589.3
152.5°	518.5	537.7	568.9	609.0
155°	546.9	568.5	601.2	635.5
157.5°	575.9	598.0	629.2	659.1
160°	593.8	617.6	645.9	673.4
162.5°	614.0	636.1	660.8	685.3
165°	643.6	661.5	681.6	702.4
167.5°	668.5	683.4	699.2	715.4
170°	684.6	696.5	709.9	722.5
172.5°	698.3	707.8	717.6	728.5
175°	716.6	721.8	727.7	734.4
177.5°	730.7	732.5	734.3	737.3
180°	736.7	736.7	736.7	736.7



TEST NUMBER: P1435782  
 CATALOG NUMBER: SQ2W-FA-K-050U-125D-L835-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	20.42	21.50	21.17	22.28	23.21	21.62	22.70	22.37	23.48	24.41
	3H	21.52	22.50	22.29	23.28	24.25	22.88	23.85	23.64	24.64	25.60
	4H	21.89	22.81	22.67	23.60	24.58	23.28	24.20	24.06	24.99	25.97
	6H	22.06	22.91	22.86	23.71	24.70	23.45	24.30	24.25	25.10	26.09
	8H	22.10	22.91	22.91	23.73	24.72	23.48	24.29	24.29	25.11	26.10
	12H	22.10	22.88	22.92	23.69	24.71	23.47	24.24	24.29	25.06	26.08
4H	2H	21.31	22.23	22.10	23.03	24.00	22.23	23.15	23.02	23.94	24.92
	3H	22.72	23.49	23.52	24.32	25.31	23.71	24.48	24.51	25.31	26.30
	4H	23.19	23.88	24.00	24.71	25.73	24.20	24.89	25.01	25.72	26.74
	6H	23.43	24.03	24.26	24.88	25.91	24.43	25.04	25.27	25.89	26.91
	8H	23.49	24.06	24.33	24.90	25.94	24.49	25.05	25.32	25.90	26.94
	12H	23.51	24.01	24.36	24.88	25.92	24.49	24.99	25.34	25.86	26.90
8H	4H	23.59	24.15	24.42	25.00	26.04	24.41	24.97	25.25	25.82	26.86
	6H	23.95	24.41	24.81	25.30	26.34	24.74	25.20	25.60	26.09	27.13
	8H	24.07	24.48	24.94	25.37	26.42	24.83	25.25	25.71	26.13	27.19
	12H	24.12	24.48	24.99	25.36	26.47	24.86	25.22	25.74	26.10	27.21
12H	4H	23.60	24.11	24.46	24.98	26.02	24.39	24.90	25.25	25.76	26.81
	6H	24.02	24.43	24.90	25.32	26.38	24.76	25.17	25.63	26.05	27.11
	8H	24.18	24.54	25.06	25.42	26.53	24.88	25.24	25.76	26.12	27.23