

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: P1435757

Luminaire Tested: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435757  
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-025U-125D-L830-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 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

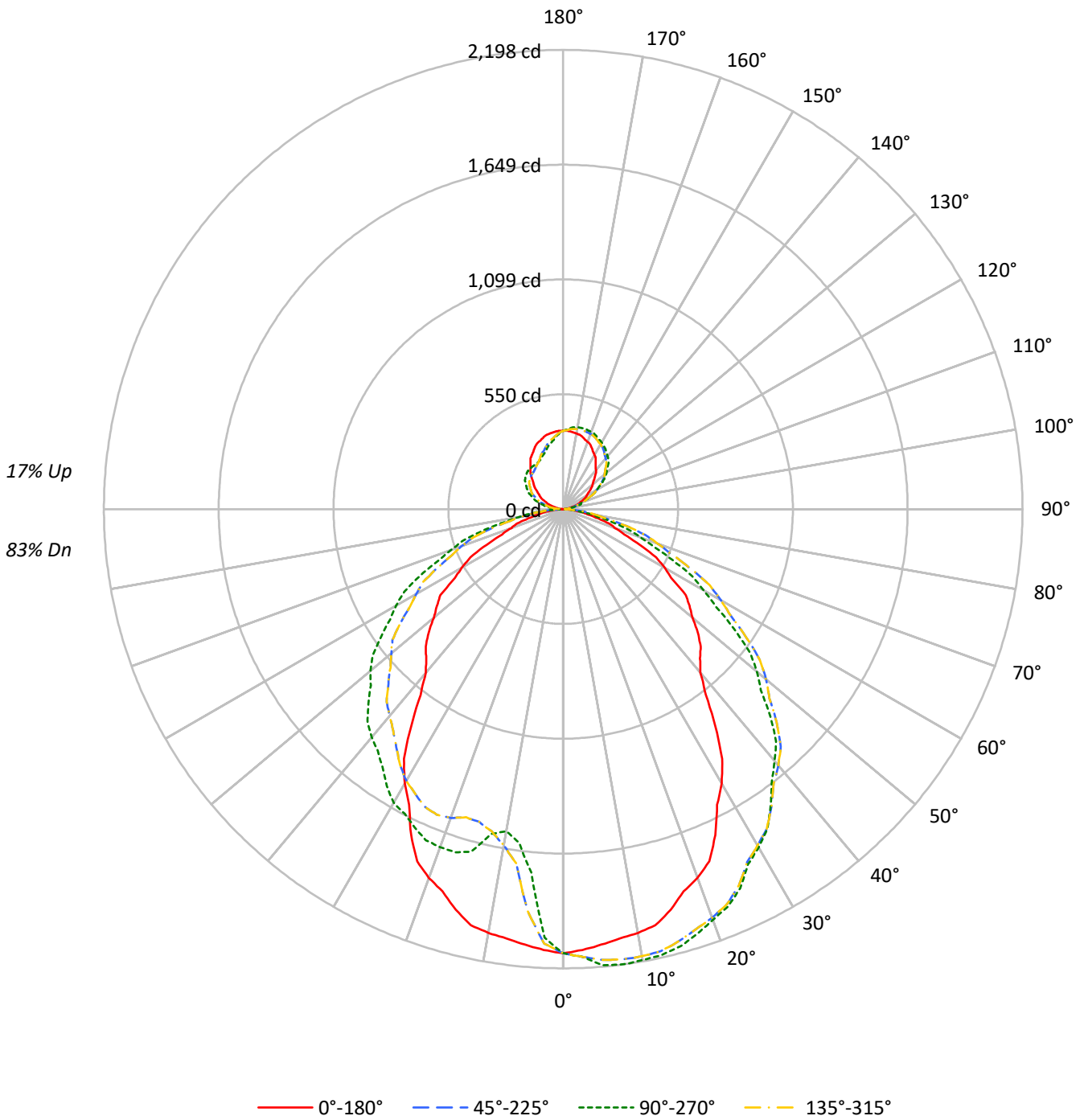
Lumens per Lamp: N/A  
Luminaire Lumens: 6374.5 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.7  
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: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	73	70				
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	88	78	70	64	84	75	68	62	69	64	59	65	60	56	60	56	53	50				
4	80	69	61	54	77	66	59	53	62	55	50	58	52	48	54	49	45	43				
5	74	62	53	47	71	59	52	46	55	49	44	52	46	42	48	43	40	37				
6	68	55	47	41	65	54	46	40	50	43	38	47	41	37	44	39	35	33				
7	63	50	42	36	60	49	41	35	46	39	34	43	37	32	40	35	31	29				
8	59	46	38	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26				
9	55	42	34	29	53	41	33	28	38	32	27	36	30	26	34	29	25	23				
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	27	23	21				

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

	0°	90°	180°	270°
0°	34317	34317	34317	34317
5°	33914	35517	33914	28306
10°	33766	35927	33766	25662
15°	33188	36217	33188	28367
20°	32274	35953	32274	29584
25°	30673	35663	30673	29939
30°	28261	34865	28261	30258
35°	25006	34100	25006	29715
40°	21532	33164	21532	30038
45°	21255	31978	21255	30097
50°	20280	30418	20280	30212
55°	20174	28059	20174	29917
60°	18089	25006	18089	29795
65°	15423	22032	15423	28955
70°	12444	18665	12444	26832
75°	10792	15421	10792	24666
80°	9196	11492	9196	19916
85°	6113	6113	6113	12208

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 32983 cd/sqm



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	3.0
10°-20°	534.4	8.4
20°-30°	811.5	12.7
30°-40°	952.8	14.9
40°-50°	966.9	15.2
50°-60°	846.9	13.3
60°-70°	600.7	9.4
70°-80°	309.3	4.9
80°-90°	66.4	1.0
90°-100°	29.8	0.5
100°-110°	87.0	1.4
110°-120°	142.0	2.2
120°-130°	180.2	2.8
130°-140°	192.8	3.0
140°-150°	180.0	2.8
150°-160°	148.1	2.3
160°-170°	99.3	1.6
170°-180°	35.3	0.6
0°-30°	1537.1	24.1
0°-40°	2489.9	39.1
0°-60°	4303.7	67.5
0°-90°	5280.1	82.8
90°-120°	258.8	4.1
90°-150°	811.7	12.7
90°-180°	1094.0	17.2
0°-180°	6374.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2126	2126	2126	2126	2126	
5°	2092	2191	2092	1746	2092	199
15°	1986	2167	1986	1697	1986	558
25°	1722	2002	1722	1681	1722	786
35°	1269	1730	1269	1508	1269	790
45°	931	1400	931	1318	931	712
55°	717	997	717	1063	717	620
65°	404	577	404	758	404	403
75°	173	247	173	395	173	187
85°	33	33	33	66	33	41
90°	1	8	1	16	1	2
95°	12	9	12	51	12	14
105°	55	89	55	122	55	59
115°	106	147	106	181	106	104
125°	157	233	157	222	157	140
135°	213	305	213	246	213	165
145°	272	351	272	251	272	170
155°	323	382	323	260	323	149
165°	357	398	357	300	357	101
175°	374	390	374	352	374	35
180°	375	375	375	375	375	



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5
2.5°	2112.3	2127.0	2141.6	2145.3	2145.3	2145.3	2145.3	2145.3	2145.3	2145.3	2145.3
5°	2092.5	2118.2	2143.8	2155.7	2163.0	2168.5	2172.2	2176.8	2184.1	2191.4	2184.1
7.5°	2072.8	2107.2	2141.6	2158.5	2169.4	2178.2	2184.8	2190.7	2194.3	2198.0	2194.3
10°	2059.6	2099.9	2140.1	2158.5	2169.4	2176.8	2180.4	2184.1	2187.7	2191.4	2187.7
12.5°	2039.8	2083.0	2126.2	2147.5	2161.4	2170.2	2173.8	2177.5	2181.2	2184.8	2181.2
15°	1985.5	2044.0	2102.6	2125.5	2136.5	2145.6	2153.0	2159.4	2163.0	2166.7	2163.0
17.5°	1917.9	1988.9	2060.0	2088.7	2103.4	2114.0	2120.6	2126.2	2129.2	2132.1	2129.2
20°	1878.4	1955.2	2032.1	2062.3	2077.0	2086.1	2089.8	2092.5	2092.5	2092.5	2092.5
22.5°	1825.6	1911.3	1997.0	2029.4	2044.0	2051.7	2052.5	2053.7	2056.7	2059.6	2056.7
25°	1721.8	1820.7	1919.5	1960.7	1982.7	1991.9	1988.2	1987.3	1994.6	2001.9	1994.6
27.5°	1595.0	1719.4	1843.9	1886.0	1900.7	1909.8	1913.5	1916.2	1916.2	1916.2	1916.2
30°	1515.9	1655.0	1794.1	1839.9	1854.6	1863.7	1867.4	1870.1	1870.1	1870.1	1870.1
32.5°	1417.0	1582.5	1748.0	1798.2	1809.9	1816.1	1816.8	1817.4	1817.4	1817.4	1817.4
35°	1268.7	1470.1	1671.5	1727.3	1734.6	1738.3	1738.3	1737.4	1733.7	1730.1	1733.7
37.5°	1120.4	1348.9	1577.4	1642.7	1653.7	1656.6	1651.5	1646.8	1643.1	1639.4	1643.1
40°	1021.6	1270.5	1519.5	1590.0	1601.0	1601.0	1590.0	1580.9	1577.2	1573.5	1577.2
42.5°	968.8	1214.9	1460.9	1530.7	1541.7	1540.2	1526.3	1514.9	1511.3	1507.6	1511.3
45°	930.9	1150.6	1370.3	1433.5	1444.5	1442.6	1428.0	1415.2	1407.8	1400.5	1407.8
47.5°	873.3	1066.6	1259.9	1322.0	1340.3	1338.5	1316.5	1298.2	1290.9	1283.5	1290.9
50°	807.4	997.8	1188.2	1249.5	1267.8	1266.0	1244.0	1225.7	1218.4	1211.0	1218.4
52.5°	761.2	939.9	1118.6	1174.8	1190.2	1185.4	1160.5	1140.0	1132.7	1125.4	1132.7
55°	716.7	866.9	1017.0	1062.8	1073.7	1066.4	1040.8	1018.8	1007.8	996.8	1007.8
57.5°	612.9	755.7	898.5	943.0	954.7	945.9	916.7	891.6	879.1	866.7	879.1
60°	560.2	688.4	816.5	859.5	874.2	866.9	837.6	811.0	792.7	774.4	792.7
62.5°	500.9	614.4	727.9	771.7	792.2	787.8	758.5	731.9	713.6	695.3	713.6
65°	403.7	502.5	601.4	645.3	671.0	669.1	639.8	613.3	595.0	576.7	595.0
67.5°	316.4	401.3	486.2	529.5	558.7	557.3	525.1	497.2	482.6	467.9	482.6
70°	263.6	336.9	410.1	450.4	479.7	479.7	450.4	424.7	410.1	395.4	410.1
72.5°	230.7	286.3	342.0	380.1	412.3	412.3	380.1	353.0	341.3	329.5	341.3
75°	173.0	206.0	238.9	274.6	311.2	314.9	285.6	261.8	254.5	247.2	254.5
77.5°	125.2	140.6	156.0	184.0	216.2	219.9	195.0	175.6	172.6	169.7	172.6
80°	98.9	102.5	106.2	129.1	158.4	162.0	140.1	123.6	123.6	123.6	123.6
82.5°	65.9	69.6	73.2	89.5	110.0	112.2	96.1	83.3	80.4	77.4	80.4
85°	33.0	33.0	33.0	38.4	45.8	45.8	38.4	33.0	33.0	33.0	33.0
87.5°	6.8	7.1	7.5	10.0	13.2	13.2	10.3	8.2	8.3	8.3	8.3
90°	1.1	2.7	4.5	6.1	7.2	7.6	7.6	8.0	8.3	8.3	8.3
92.5°	4.2	6.6	6.7	6.7	8.1	8.8	9.4	9.5	9.8	9.8	9.8
95°	11.7	12.9	19.3	18.9	12.9	10.2	8.7	8.7	8.7	8.7	8.7
97.5°	22.4	24.1	25.1	33.7	35.6	34.4	28.0	23.6	21.1	19.9	21.1
100°	31.8	32.6	34.8	35.2	44.7	53.8	49.2	43.5	41.6	40.5	41.6
102.5°	41.2	41.6	45.1	46.7	48.9	54.1	69.8	68.1	66.8	66.6	66.8
105°	55.3	55.7	62.1	65.1	66.6	66.6	66.3	73.8	85.9	88.6	85.9
107.5°	70.3	72.1	79.7	87.8	89.5	90.0	88.0	86.9	86.4	86.7	86.4
110°	80.6	83.3	92.4	102.6	105.3	106.0	105.3	104.1	103.4	103.4	103.4



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	90.6	94.5	104.8	116.5	121.0	123.3	121.6	120.8	120.0	120.6	120.0
115°	106.0	111.7	125.3	137.4	146.5	147.7	147.3	147.3	146.9	146.9	146.9
117.5°	120.3	129.3	144.6	158.7	169.2	172.3	173.8	173.3	172.9	173.6	172.9
120°	130.2	140.8	158.3	174.2	184.4	188.9	190.4	189.7	190.4	189.7	190.4
122.5°	140.8	153.9	171.0	187.5	199.5	204.7	206.5	206.7	206.8	206.4	206.8
125°	156.8	172.7	192.7	209.8	222.3	228.3	229.8	230.2	231.0	232.9	231.0
127.5°	172.8	190.8	212.9	229.3	242.1	249.4	251.8	252.6	254.2	255.0	254.2
130°	184.0	204.5	226.8	242.3	254.8	262.8	266.9	268.1	270.0	269.6	270.0
132.5°	195.8	217.2	239.8	256.0	267.5	276.1	279.7	282.9	283.6	284.1	283.6
135°	213.2	236.3	259.0	274.9	285.9	294.2	298.7	301.8	303.7	304.8	303.7
137.5°	231.4	255.8	277.6	291.8	302.8	310.0	315.2	318.4	320.3	321.2	320.3
140°	243.8	267.3	288.5	303.3	313.1	320.3	324.9	328.6	330.9	330.9	330.9
142.5°	255.6	278.8	299.4	314.2	322.8	329.4	334.3	337.1	339.7	339.7	339.7
145°	272.2	295.3	314.3	329.0	336.2	342.3	347.6	349.9	351.4	351.4	351.4
147.5°	289.6	310.0	327.3	341.4	347.5	354.6	358.8	360.6	362.5	361.7	362.5
150°	299.9	318.8	335.5	348.7	354.8	361.6	365.8	367.3	369.2	368.0	369.2
152.5°	309.9	327.9	343.0	355.4	360.5	367.3	372.1	373.6	374.9	374.1	374.9
155°	323.3	339.3	353.3	364.6	369.2	375.6	380.1	382.0	383.6	381.7	383.6
157.5°	335.4	349.1	361.3	371.7	376.6	382.1	386.4	388.7	390.2	389.4	390.2
160°	342.7	355.2	366.1	376.0	380.5	385.4	390.0	392.6	394.2	393.0	394.2
162.5°	348.7	360.0	370.4	379.3	383.2	387.6	393.0	395.4	396.9	395.4	396.9
165°	357.4	366.5	375.6	383.2	386.6	390.0	395.7	398.3	399.5	397.9	399.5
167.5°	364.0	371.0	378.3	384.8	387.3	390.7	396.3	398.5	400.0	398.1	400.0
170°	367.6	373.7	380.1	385.4	387.3	390.4	396.0	397.9	399.1	397.2	399.1
172.5°	370.7	375.2	380.4	385.1	386.1	388.5	393.9	395.8	396.7	395.1	396.7
175°	373.7	376.4	380.1	383.2	382.8	384.3	388.9	390.4	391.9	389.6	391.9
177.5°	375.1	376.4	377.6	379.4	378.2	378.2	381.5	382.4	382.7	381.5	382.7
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5
2.5°	2145.3	2145.3	2145.3	2145.3	2145.3	2141.6	2127.0	2112.3	2112.3	2112.3	2101.3
5°	2176.8	2172.2	2168.5	2163.0	2155.7	2143.8	2118.2	2092.5	2081.6	2070.6	2023.9
7.5°	2190.7	2184.8	2178.2	2169.4	2158.5	2141.6	2107.2	2072.8	2023.7	1974.6	1870.7
10°	2184.1	2180.4	2176.8	2169.4	2158.5	2140.1	2099.9	2059.6	1960.7	1861.9	1763.0
12.5°	2177.5	2173.8	2170.2	2161.4	2147.5	2126.2	2083.0	2039.8	1900.0	1760.1	1670.7
15°	2159.4	2153.0	2145.6	2136.5	2125.5	2102.6	2044.0	1985.5	1828.0	1670.6	1595.5
17.5°	2126.2	2120.6	2114.0	2103.4	2088.7	2060.0	1988.9	1917.9	1753.1	1588.4	1540.0
20°	2092.5	2089.8	2086.1	2077.0	2062.3	2032.1	1955.2	1878.4	1713.6	1548.8	1526.8
22.5°	2053.7	2052.5	2051.7	2044.0	2029.4	1997.0	1911.3	1825.6	1663.8	1501.9	1502.7
25°	1987.3	1988.2	1991.9	1982.7	1960.7	1919.5	1820.7	1721.8	1579.0	1436.2	1460.9
27.5°	1916.2	1913.5	1909.8	1900.7	1886.0	1843.9	1719.4	1595.0	1482.2	1369.4	1410.4
30°	1870.1	1867.4	1863.7	1854.6	1839.9	1794.1	1655.0	1515.9	1420.7	1325.5	1373.1
32.5°	1817.4	1816.8	1816.1	1809.9	1798.2	1748.0	1582.5	1417.0	1348.2	1279.3	1329.1
35°	1737.4	1738.3	1738.3	1734.6	1727.3	1671.5	1470.1	1268.7	1239.4	1210.1	1268.7
37.5°	1646.8	1651.5	1656.6	1653.7	1642.7	1577.4	1348.9	1120.4	1129.9	1139.5	1210.5
40°	1580.9	1590.0	1601.0	1601.0	1590.0	1519.5	1270.5	1021.6	1054.5	1087.5	1164.4
42.5°	1514.9	1526.3	1540.2	1541.7	1530.7	1460.9	1214.9	968.8	1004.7	1040.6	1120.4
45°	1415.2	1428.0	1442.6	1444.5	1433.5	1370.3	1150.6	930.9	952.9	974.9	1051.8
47.5°	1298.2	1316.5	1338.5	1340.3	1322.0	1259.9	1066.6	873.3	889.4	905.5	984.2
50°	1225.7	1244.0	1266.0	1267.8	1249.5	1188.2	997.8	807.4	829.3	851.3	933.7
52.5°	1140.0	1160.5	1185.4	1190.2	1174.8	1118.6	939.9	761.2	774.4	787.6	876.6
55°	1018.8	1040.8	1066.4	1073.7	1062.8	1017.0	866.9	716.7	705.8	694.8	785.4
57.5°	891.6	916.7	945.9	954.7	943.0	898.5	755.7	612.9	603.4	593.9	692.0
60°	811.0	837.6	866.9	874.2	859.5	816.5	688.4	560.2	541.9	523.6	626.1
62.5°	731.9	758.5	787.8	792.2	771.7	727.9	614.4	500.9	488.4	476.0	575.6
65°	613.3	639.8	669.1	671.0	645.3	601.4	502.5	403.7	411.0	418.3	508.0
67.5°	497.2	525.1	557.3	558.7	529.5	486.2	401.3	316.4	340.5	364.7	445.4
70°	424.7	450.4	479.7	479.7	450.4	410.1	336.9	263.6	296.6	329.5	403.7
72.5°	353.0	380.1	412.3	412.3	380.1	342.0	286.3	230.7	263.6	296.6	357.5
75°	261.8	285.6	314.9	311.2	274.6	238.9	206.0	173.0	206.0	238.9	285.6
77.5°	175.6	195.0	219.9	216.2	184.0	156.0	140.6	125.2	152.3	179.4	212.0
80°	123.6	140.1	162.0	158.4	129.1	106.2	102.5	98.9	117.2	135.5	159.3
82.5°	83.3	96.1	112.2	110.0	89.5	73.2	69.6	65.9	81.3	96.7	113.1
85°	33.0	38.4	45.8	45.8	38.4	33.0	33.0	33.0	40.3	47.6	54.9
87.5°	8.2	10.3	13.2	13.2	10.0	7.5	7.1	6.8	10.0	13.3	14.5
90°	8.0	7.6	7.6	7.2	6.1	4.5	2.7	1.1	2.7	4.2	6.8
92.5°	9.5	9.4	8.8	8.1	6.7	6.7	6.6	4.2	7.2	10.2	14.7
95°	8.7	8.7	10.2	12.9	18.9	19.3	12.9	11.7	16.7	23.5	29.5
97.5°	23.6	28.0	34.4	35.6	33.7	25.1	24.1	22.4	30.5	37.3	47.0
100°	43.5	49.2	53.8	44.7	35.2	34.8	32.6	31.8	40.5	46.9	56.4
102.5°	68.1	69.8	54.1	48.9	46.7	45.1	41.6	41.2	49.9	58.8	66.7
105°	73.8	66.3	66.6	66.6	65.1	62.1	55.7	55.3	65.1	75.3	85.2
107.5°	86.9	88.0	90.0	89.5	87.8	79.7	72.1	70.3	79.2	91.5	102.3
110°	104.1	105.3	106.0	105.3	102.6	92.4	83.3	80.6	88.6	101.5	113.2



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	120.8	121.6	123.3	121.0	116.5	104.8	94.5	90.6	98.6	111.8	123.8
115°	147.3	147.3	147.7	146.5	137.4	125.3	111.7	106.0	112.8	124.9	138.2
117.5°	173.3	173.8	172.3	169.2	158.7	144.6	129.3	120.3	125.6	138.4	152.1
120°	189.7	190.4	188.9	184.4	174.2	158.3	140.8	130.2	134.4	146.9	160.5
122.5°	206.7	206.5	204.7	199.5	187.5	171.0	153.9	140.8	142.6	154.2	167.5
125°	230.2	229.8	228.3	222.3	209.8	192.7	172.7	156.8	154.5	164.3	178.0
127.5°	252.6	251.8	249.4	242.1	229.3	212.9	190.8	172.8	167.7	173.9	186.4
130°	268.1	266.9	262.8	254.8	242.3	226.8	204.5	184.0	176.8	180.6	191.6
132.5°	282.9	279.7	276.1	267.5	256.0	239.8	217.2	195.8	185.9	187.6	196.1
135°	301.8	298.7	294.2	285.9	274.9	259.0	236.3	213.2	199.5	198.0	202.9
137.5°	318.4	315.2	310.0	302.8	291.8	277.6	255.8	231.4	214.2	209.2	211.0
140°	328.6	324.9	320.3	313.1	303.3	288.5	267.3	243.8	224.5	217.3	216.2
142.5°	337.1	334.3	329.4	322.8	314.2	299.4	278.8	255.6	235.1	225.8	223.2
145°	349.9	347.6	342.3	336.2	329.0	314.3	295.3	272.2	251.8	239.7	234.0
147.5°	360.6	358.8	354.6	347.5	341.4	327.3	310.0	289.6	268.6	253.6	246.3
150°	367.3	365.8	361.6	354.8	348.7	335.5	318.8	299.9	279.8	263.9	254.4
152.5°	373.6	372.1	367.3	360.5	355.4	343.0	327.9	309.9	289.5	273.6	263.8
155°	382.0	380.1	375.6	369.2	364.6	353.3	339.3	323.3	305.9	289.3	278.3
157.5°	388.7	386.4	382.1	376.6	371.7	361.3	349.1	335.4	320.2	304.3	293.1
160°	392.6	390.0	385.4	380.5	376.0	366.1	355.2	342.7	328.6	314.3	302.1
162.5°	395.4	393.0	387.6	383.2	379.3	370.4	360.0	348.7	336.2	323.7	312.4
165°	398.3	395.7	390.0	386.6	383.2	375.6	366.5	357.4	346.8	336.6	327.5
167.5°	398.5	396.3	390.7	387.3	384.8	378.3	371.0	364.0	355.8	347.7	340.2
170°	397.9	396.0	390.4	387.3	385.4	380.1	373.7	367.6	361.2	354.4	348.3
172.5°	395.8	393.9	388.5	386.1	385.1	380.4	375.2	370.7	365.1	360.2	355.3
175°	390.4	388.9	384.3	382.8	383.2	380.1	376.4	373.7	370.3	367.3	364.6
177.5°	382.4	381.5	378.2	378.2	379.4	377.6	376.4	375.1	373.6	372.7	371.8
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5	2125.5
2.5°	2086.7	2075.0	2066.2	2058.9	2055.9	2053.0	2055.9	2058.9	2066.2	2075.0	2086.7
5°	1965.3	1903.1	1837.2	1783.2	1764.8	1746.5	1764.8	1783.2	1837.2	1903.1	1965.3
7.5°	1748.4	1673.3	1645.5	1623.1	1617.3	1611.4	1617.3	1623.1	1645.5	1673.3	1748.4
10°	1664.2	1603.7	1581.8	1565.3	1565.3	1565.3	1565.3	1565.3	1581.8	1603.7	1664.2
12.5°	1598.2	1561.3	1559.8	1562.4	1577.0	1591.7	1577.0	1562.4	1559.8	1561.3	1598.2
15°	1547.9	1553.4	1612.0	1660.5	1678.8	1697.1	1678.8	1660.5	1612.0	1553.4	1547.9
17.5°	1530.5	1562.0	1634.5	1692.5	1707.2	1721.8	1707.2	1692.5	1634.5	1562.0	1530.5
20°	1552.5	1592.8	1647.7	1692.5	1707.2	1721.8	1707.2	1692.5	1647.7	1592.8	1552.5
22.5°	1557.6	1606.7	1649.9	1685.9	1700.6	1715.2	1700.6	1685.9	1649.9	1606.7	1557.6
25°	1541.5	1600.1	1636.7	1666.0	1673.3	1680.6	1673.3	1666.0	1636.7	1600.1	1541.5
27.5°	1502.7	1567.1	1603.7	1632.5	1637.6	1642.7	1637.6	1632.5	1603.7	1567.1	1502.7
30°	1468.3	1534.2	1570.8	1601.0	1612.0	1623.0	1612.0	1601.0	1570.8	1534.2	1468.3
32.5°	1418.5	1485.8	1531.2	1565.8	1568.0	1570.2	1568.0	1565.8	1531.2	1485.8	1418.5
35°	1356.6	1426.2	1477.4	1514.9	1511.3	1507.6	1511.3	1514.9	1477.4	1426.2	1356.6
37.5°	1302.0	1370.1	1414.8	1449.4	1453.8	1458.2	1453.8	1449.4	1414.8	1370.1	1302.0
40°	1255.9	1325.5	1373.1	1410.6	1417.9	1425.2	1417.9	1410.6	1373.1	1325.5	1255.9
42.5°	1214.9	1285.9	1333.5	1371.1	1378.4	1385.7	1378.4	1371.1	1333.5	1285.9	1214.9
45°	1147.0	1220.2	1271.5	1310.8	1314.5	1318.1	1314.5	1310.8	1271.5	1220.2	1147.0
47.5°	1083.8	1157.4	1205.0	1241.6	1245.3	1248.9	1245.3	1241.6	1205.0	1157.4	1083.8
50°	1036.2	1111.3	1158.9	1195.5	1199.1	1202.8	1199.1	1195.5	1158.9	1111.3	1036.2
52.5°	990.8	1068.8	1110.5	1142.8	1146.4	1150.1	1146.4	1142.8	1110.5	1068.8	990.8
55°	909.9	992.3	1032.5	1062.8	1062.8	1062.8	1062.8	1062.8	1032.5	992.3	909.9
57.5°	826.0	910.6	945.8	973.2	977.6	982.0	977.6	973.2	945.8	910.6	826.0
60°	768.9	855.0	884.3	908.1	915.4	922.7	915.4	908.1	884.3	855.0	768.9
62.5°	712.5	795.6	824.9	848.0	852.4	856.8	852.4	848.0	824.9	795.6	712.5
65°	625.2	698.4	727.7	750.6	754.3	757.9	754.3	750.6	727.7	698.4	625.2
67.5°	545.0	605.1	625.6	641.7	644.6	647.5	644.6	641.7	625.6	605.1	545.0
70°	491.6	542.8	557.5	568.4	568.4	568.4	568.4	568.4	557.5	542.8	491.6
72.5°	427.8	470.3	485.0	496.7	499.6	502.5	499.6	496.7	485.0	470.3	427.8
75°	336.9	368.0	379.0	388.1	391.8	395.4	391.8	388.1	379.0	368.0	336.9
77.5°	246.4	266.9	273.5	279.4	283.0	286.7	283.0	279.4	273.5	266.9	246.4
80°	184.9	199.6	203.2	206.9	210.5	214.2	210.5	206.9	203.2	199.6	184.9
82.5°	130.0	140.2	143.9	146.8	147.6	148.3	147.6	146.8	143.9	140.2	130.0
85°	62.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	62.2
87.5°	14.9	15.5	16.0	16.3	16.6	16.4	16.6	16.3	16.0	15.5	14.9
90°	8.7	11.4	14.0	15.5	17.0	16.3	17.0	15.5	14.0	11.4	8.7
92.5°	17.5	22.0	25.2	27.9	29.2	29.0	29.2	27.9	25.2	22.0	17.5
95°	35.2	40.5	45.8	49.6	51.9	51.1	51.9	49.6	45.8	40.5	35.2
97.5°	54.3	61.4	67.3	70.9	73.2	74.7	73.2	70.9	67.3	61.4	54.3
100°	67.0	73.8	80.6	84.8	88.6	90.1	88.6	84.8	80.6	73.8	67.0
102.5°	77.3	86.3	93.7	98.1	101.3	102.8	101.3	98.1	93.7	86.3	77.3
105°	94.3	103.7	111.7	117.4	120.8	121.9	120.8	117.4	111.7	103.7	94.3
107.5°	111.2	121.0	128.4	134.6	138.8	141.2	138.8	134.6	128.4	121.0	111.2
110°	124.6	132.5	140.5	146.2	150.3	151.8	150.3	146.2	140.5	132.5	124.6



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	135.8	144.6	152.6	158.3	163.0	165.2	163.0	158.3	152.6	144.6	135.8
115°	151.5	163.2	170.4	175.7	179.1	181.0	179.1	175.7	170.4	163.2	151.5
117.5°	164.5	176.7	184.6	188.7	190.3	191.7	190.3	188.7	184.6	176.7	164.5
120°	172.7	184.0	193.1	198.4	200.3	201.1	200.3	198.4	193.1	184.0	172.7
122.5°	180.2	191.0	199.8	206.3	209.4	210.1	209.4	206.3	199.8	191.0	180.2
125°	190.8	201.1	210.1	216.6	220.0	221.9	220.0	216.6	210.1	201.1	190.8
127.5°	200.1	211.1	219.5	225.3	228.6	230.1	228.6	225.3	219.5	211.1	200.1
130°	205.2	216.6	224.9	231.3	234.4	235.9	234.4	231.3	224.9	216.6	205.2
132.5°	209.2	221.1	229.8	235.6	238.9	240.4	238.9	235.6	229.8	221.1	209.2
135°	213.9	226.4	235.5	241.2	244.2	245.7	244.2	241.2	235.5	226.4	213.9
137.5°	218.1	229.4	238.9	244.9	247.6	248.6	247.6	244.9	238.9	229.4	218.1
140°	221.1	231.0	240.4	246.1	249.1	249.5	249.1	246.1	240.4	231.0	221.1
142.5°	225.1	232.8	241.0	246.7	249.7	250.4	249.7	246.7	241.0	232.8	225.1
145°	232.1	236.6	242.3	247.6	250.3	251.0	250.3	247.6	242.3	236.6	232.1
147.5°	241.0	242.4	245.4	248.8	251.4	251.9	251.4	248.8	245.4	242.4	241.0
150°	247.6	247.2	248.4	250.7	252.9	252.5	252.9	250.7	248.4	247.2	247.6
152.5°	255.2	253.0	252.9	254.0	255.0	255.0	255.0	254.0	252.9	253.0	255.2
155°	268.1	263.9	261.6	260.9	260.9	260.5	260.9	260.9	261.6	263.9	268.1
157.5°	282.2	276.4	273.0	271.2	270.6	269.8	270.6	271.2	273.0	276.4	282.2
160°	291.9	285.5	282.1	279.0	277.9	276.8	277.9	279.0	282.1	285.5	291.9
162.5°	301.0	294.9	291.2	288.4	287.3	285.6	287.3	288.4	291.2	294.9	301.0
165°	315.8	309.3	305.2	302.9	301.4	299.9	301.4	302.9	305.2	309.3	315.8
167.5°	330.5	323.5	320.8	318.2	316.8	314.0	316.8	318.2	320.8	323.5	330.5
170°	339.6	333.2	331.7	329.4	326.8	323.7	326.8	329.4	331.7	333.2	339.6
172.5°	347.5	343.2	341.7	339.4	338.6	336.1	338.6	339.4	341.7	343.2	347.5
175°	358.9	355.5	355.5	355.2	354.0	351.7	354.0	355.2	355.5	355.5	358.9
177.5°	368.5	366.7	367.9	367.9	367.6	365.5	367.6	367.9	367.9	366.7	368.5
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2125.5	2125.5	2125.5	2125.5
2.5°	2101.3	2112.3	2112.3	2112.3
5°	2023.9	2070.6	2081.6	2092.5
7.5°	1870.7	1974.6	2023.7	2072.8
10°	1763.0	1861.9	1960.7	2059.6
12.5°	1670.7	1760.1	1900.0	2039.8
15°	1595.5	1670.6	1828.0	1985.5
17.5°	1540.0	1588.4	1753.1	1917.9
20°	1526.8	1548.8	1713.6	1878.4
22.5°	1502.7	1501.9	1663.8	1825.6
25°	1460.9	1436.2	1579.0	1721.8
27.5°	1410.4	1369.4	1482.2	1595.0
30°	1373.1	1325.5	1420.7	1515.9
32.5°	1329.1	1279.3	1348.2	1417.0
35°	1268.7	1210.1	1239.4	1268.7
37.5°	1210.5	1139.5	1129.9	1120.4
40°	1164.4	1087.5	1054.5	1021.6
42.5°	1120.4	1040.6	1004.7	968.8
45°	1051.8	974.9	952.9	930.9
47.5°	984.2	905.5	889.4	873.3
50°	933.7	851.3	829.3	807.4
52.5°	876.6	787.6	774.4	761.2
55°	785.4	694.8	705.8	716.7
57.5°	692.0	593.9	603.4	612.9
60°	626.1	523.6	541.9	560.2
62.5°	575.6	476.0	488.4	500.9
65°	508.0	418.3	411.0	403.7
67.5°	445.4	364.7	340.5	316.4
70°	403.7	329.5	296.6	263.6
72.5°	357.5	296.6	263.6	230.7
75°	285.6	238.9	206.0	173.0
77.5°	212.0	179.4	152.3	125.2
80°	159.3	135.5	117.2	98.9
82.5°	113.1	96.7	81.3	65.9
85°	54.9	47.6	40.3	33.0
87.5°	14.5	13.3	10.0	6.8
90°	6.8	4.2	2.7	1.1
92.5°	14.7	10.2	7.2	4.2
95°	29.5	23.5	16.7	11.7
97.5°	47.0	37.3	30.5	22.4
100°	56.4	46.9	40.5	31.8
102.5°	66.7	58.8	49.9	41.2
105°	85.2	75.3	65.1	55.3
107.5°	102.3	91.5	79.2	70.3
110°	113.2	101.5	88.6	80.6



TEST NUMBER: P1435757

CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	123.8	111.8	98.6	90.6
115°	138.2	124.9	112.8	106.0
117.5°	152.1	138.4	125.6	120.3
120°	160.5	146.9	134.4	130.2
122.5°	167.5	154.2	142.6	140.8
125°	178.0	164.3	154.5	156.8
127.5°	186.4	173.9	167.7	172.8
130°	191.6	180.6	176.8	184.0
132.5°	196.1	187.6	185.9	195.8
135°	202.9	198.0	199.5	213.2
137.5°	211.0	209.2	214.2	231.4
140°	216.2	217.3	224.5	243.8
142.5°	223.2	225.8	235.1	255.6
145°	234.0	239.7	251.8	272.2
147.5°	246.3	253.6	268.6	289.6
150°	254.4	263.9	279.8	299.9
152.5°	263.8	273.6	289.5	309.9
155°	278.3	289.3	305.9	323.3
157.5°	293.1	304.3	320.2	335.4
160°	302.1	314.3	328.6	342.7
162.5°	312.4	323.7	336.2	348.7
165°	327.5	336.6	346.8	357.4
167.5°	340.2	347.7	355.8	364.0
170°	348.3	354.4	361.2	367.6
172.5°	355.3	360.2	365.1	370.7
175°	364.6	367.3	370.3	373.7
177.5°	371.8	372.7	373.6	375.1
180°	374.8	374.8	374.8	374.8



TEST NUMBER: P1435757  
 CATALOG NUMBER: SQ2W-FA-K-025U-125D-L830-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	21.28	22.54	21.90	23.16	23.87	22.48	23.74	23.10	24.36	25.07
	3H	22.40	23.53	23.03	24.16	24.91	23.75	24.89	24.38	25.52	26.26
	4H	22.77	23.84	23.42	24.48	25.24	24.16	25.23	24.81	25.87	26.63
	6H	22.95	23.94	23.61	24.59	25.37	24.34	25.33	25.00	25.98	26.76
	8H	23.00	23.94	23.67	24.61	25.39	24.38	25.32	25.05	25.99	26.77
	12H	23.01	23.90	23.69	24.57	25.38	24.38	25.27	25.05	25.94	26.75
4H	2H	22.20	23.26	22.85	23.91	24.67	23.11	24.18	23.76	24.82	25.58
	3H	23.62	24.51	24.29	25.20	25.97	24.61	25.50	25.28	26.19	26.96
	4H	24.09	24.90	24.77	25.59	26.40	25.10	25.91	25.79	26.60	27.41
	6H	24.35	25.04	25.05	25.76	26.58	25.35	26.05	26.05	26.76	27.58
	8H	24.41	25.06	25.12	25.78	26.61	25.41	26.06	26.11	26.77	27.60
	12H	24.43	25.02	25.16	25.76	26.59	25.41	26.00	26.14	26.74	27.57
8H	4H	24.51	25.16	25.21	25.87	26.70	25.33	25.98	26.04	26.70	27.53
	6H	24.88	25.42	25.61	26.17	27.01	25.66	26.20	26.40	26.96	27.79
	8H	25.00	25.48	25.75	26.24	27.09	25.76	26.24	26.51	27.00	27.85
	12H	25.05	25.48	25.80	26.22	27.13	25.79	26.22	26.54	26.97	27.88
12H	4H	24.53	25.12	25.26	25.85	26.69	25.32	25.90	26.05	26.64	27.48
	6H	24.95	25.43	25.70	26.19	27.04	25.68	26.16	26.43	26.92	27.77
	8H	25.11	25.54	25.86	26.28	27.20	25.82	26.24	26.57	26.99	27.90