

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: P1428216

Luminaire Tested: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428216  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

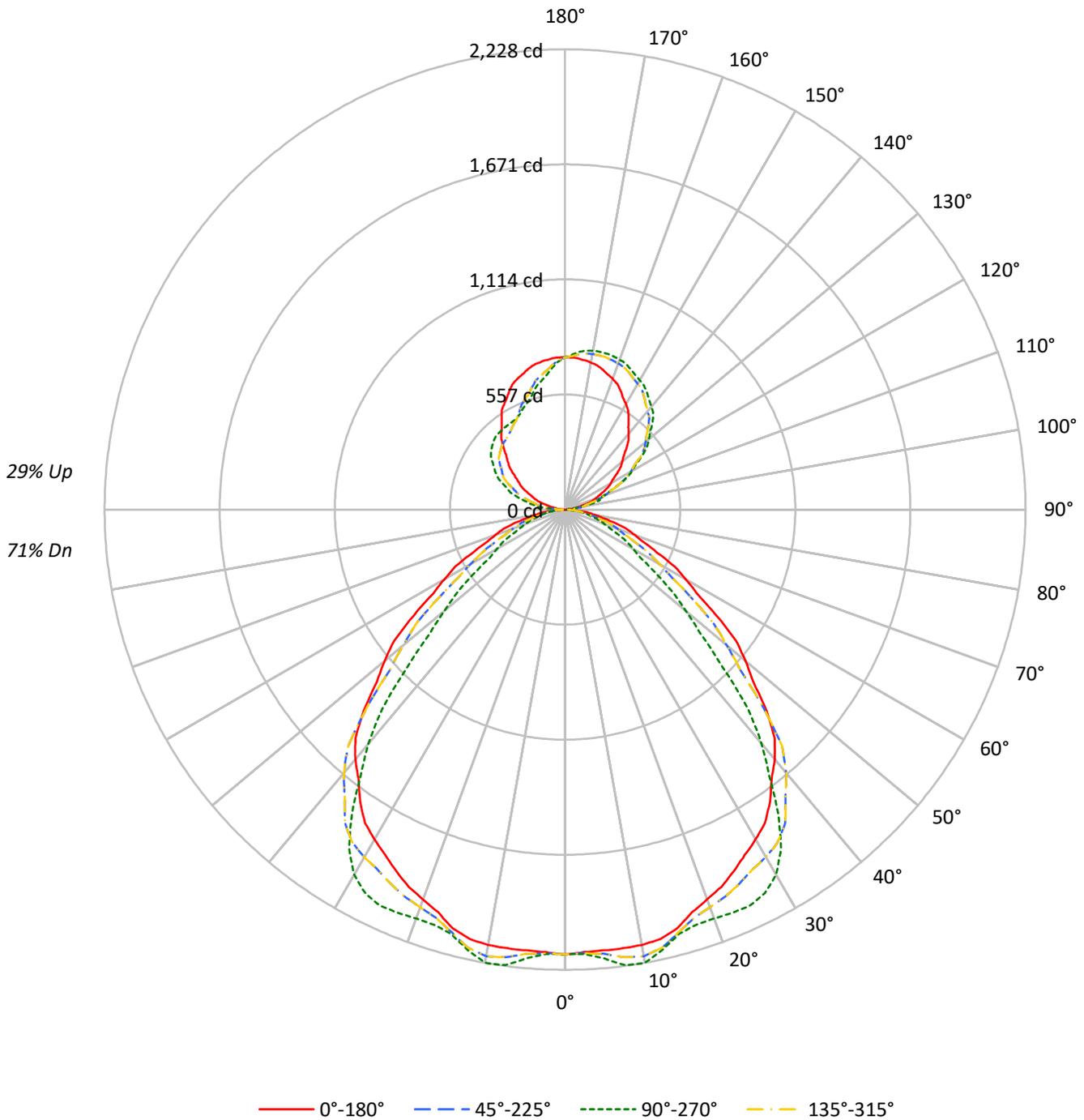
Lumens per Lamp: N/A  
Luminaire Lumens: 7334.2 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.5  
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

TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71				
1	103	99	96	92	98	94	91	88	85	82	80	76	74	72	68	66	65	61				
2	95	88	82	77	90	83	78	74	75	71	68	68	65	62	61	58	56	53				
3	87	78	71	65	82	74	68	63	67	62	58	61	57	53	55	51	49	46				
4	80	69	62	56	76	66	59	54	60	55	50	55	50	46	49	46	43	40				
5	74	62	54	48	70	60	52	47	54	48	44	49	44	41	45	41	38	35				
6	68	56	48	42	65	54	46	41	49	43	39	45	40	36	41	37	33	31				
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	37	33	30	28				
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	34	30	27	25				
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	24	23				
10	52	39	32	27	49	38	31	27	35	29	25	32	27	24	30	25	22	21				

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

	0°	90°	180°	270°
0°	34765	34765	34765	34765
5°	34721	35361	34721	35361
10°	35086	36526	35086	36526
15°	35075	35551	35075	35551
20°	34508	36204	34508	36204
25°	34409	37694	34409	37694
30°	34373	38057	34373	38057
35°	34047	35433	34047	35433
40°	33263	31181	33263	31181
45°	31473	24658	31473	24658
50°	28614	19130	28614	19130
55°	25145	14891	25145	14891
60°	21758	12261	21758	12261
65°	18785	10735	18785	10735
70°	16890	9531	16890	9531
75°	15471	8765	15471	8765
80°	13473	8573	13473	8573
85°	9763	4057	9763	4057

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 33791 cd/sqm



TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.9	2.8
10°-20°	602.0	8.2
20°-30°	930.5	12.7
30°-40°	1119.1	15.3
40°-50°	1004.9	13.7
50°-60°	673.3	9.2
60°-70°	391.7	5.3
70°-80°	201.2	2.7
80°-90°	52.7	0.7
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	5.2
140°-150°	353.8	4.8
150°-160°	291.1	4.0
160°-170°	195.2	2.7
170°-180°	69.3	0.9
0°-30°	1740.5	23.7
0°-40°	2859.5	39.0
0°-60°	4537.7	61.9
0°-90°	5183.3	70.7
90°-120°	508.6	6.9
90°-150°	1595.3	21.8
90°-180°	2151.0	29.3
0°-180°	7334.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2153	2153	2153	2153	2153	
5°	2142	2182	2142	2182	2142	204
15°	2098	2127	2098	2127	2098	589
25°	1932	2116	1932	2116	1932	891
35°	1727	1798	1727	1798	1727	1077
45°	1378	1080	1378	1080	1378	1054
55°	893	529	893	529	893	803
65°	492	281	492	281	492	497
75°	248	140	248	140	248	263
85°	53	22	53	22	53	65
90°	2	16	2	32	2	4
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	



TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2144.5	2156.2	2167.9	2162.6	2151.7	2146.6	2147.4	2148.6	2150.9	2153.2	2150.9
5°	2142.3	2158.8	2175.4	2171.5	2160.8	2156.4	2158.4	2162.3	2172.0	2181.8	2172.0
7.5°	2141.8	2165.4	2189.0	2190.8	2185.4	2185.5	2191.1	2198.6	2211.5	2224.3	2211.5
10°	2140.1	2168.4	2196.6	2200.8	2196.9	2195.4	2196.4	2200.5	2214.2	2227.9	2214.2
12.5°	2129.5	2162.5	2195.5	2192.0	2176.4	2167.9	2166.5	2167.4	2174.8	2182.2	2174.8
15°	2098.4	2137.4	2176.4	2160.5	2126.4	2110.8	2113.7	2117.1	2122.0	2126.9	2122.0
17.5°	2043.5	2084.3	2125.0	2110.8	2078.2	2067.2	2077.7	2088.0	2097.6	2107.1	2097.6
20°	2008.4	2048.4	2088.4	2078.6	2052.3	2045.9	2059.6	2074.0	2090.6	2107.1	2090.6
22.5°	1976.8	2016.8	2056.8	2050.5	2028.9	2027.6	2046.7	2066.8	2089.6	2112.4	2089.6
25°	1931.5	1966.7	2001.8	2002.5	1991.8	2002.5	2034.7	2065.2	2090.6	2115.9	2090.6
27.5°	1884.1	1904.8	1925.5	1939.2	1950.5	1977.9	2021.4	2058.5	2076.2	2094.0	2076.2
30°	1843.7	1857.4	1871.1	1896.4	1925.7	1959.3	1997.4	2027.6	2034.5	2041.3	2034.5
32.5°	1799.8	1808.0	1816.2	1851.9	1896.8	1929.3	1949.4	1962.3	1953.5	1944.7	1953.5
35°	1727.4	1734.2	1741.1	1786.7	1845.2	1866.7	1851.1	1834.7	1816.2	1797.7	1816.2
37.5°	1641.4	1655.4	1669.5	1706.6	1751.5	1751.1	1705.5	1665.9	1644.6	1623.4	1644.6
40°	1578.2	1601.6	1625.0	1649.9	1675.2	1653.8	1585.5	1528.2	1503.8	1479.4	1503.8
42.5°	1500.9	1538.4	1575.8	1581.4	1576.3	1530.3	1443.2	1370.5	1340.7	1310.8	1340.7
45°	1378.4	1429.1	1479.9	1450.9	1395.2	1320.1	1225.5	1146.2	1113.1	1079.9	1113.1
47.5°	1234.0	1286.1	1338.2	1283.5	1193.1	1105.7	1021.2	950.1	919.1	888.1	919.1
50°	1139.2	1181.1	1223.1	1161.1	1064.5	976.7	897.7	829.9	795.8	761.6	795.8
52.5°	1042.6	1072.8	1103.1	1041.7	949.8	864.4	785.3	718.3	687.3	656.3	687.3
55°	893.3	908.9	924.6	867.7	786.8	708.7	633.6	571.9	550.4	529.0	550.4
57.5°	756.4	766.3	776.3	722.4	647.3	577.9	514.1	462.3	446.5	430.6	446.5
60°	673.8	680.7	687.5	632.9	557.8	495.3	445.6	405.1	392.4	379.7	392.4
62.5°	598.3	603.6	608.9	556.2	484.2	428.4	388.8	356.7	347.1	337.6	347.1
65°	491.7	496.5	501.4	456.5	395.1	349.2	319.0	294.6	287.8	281.0	287.8
67.5°	406.9	409.5	412.0	375.0	324.9	287.9	264.1	244.7	238.2	231.8	238.2
70°	357.8	358.8	359.7	327.0	283.1	250.5	229.0	211.7	206.8	201.9	206.8
72.5°	313.9	312.5	311.1	282.0	243.5	215.5	198.0	184.0	180.7	177.4	180.7
75°	248.0	245.1	242.2	218.0	186.8	165.4	153.6	144.4	142.4	140.5	142.4
77.5°	185.3	182.1	179.0	158.9	133.2	118.3	114.4	111.5	111.5	111.5	111.5
80°	144.9	141.0	137.1	121.5	101.9	92.2	92.2	92.2	92.2	92.2	92.2
82.5°	108.0	102.5	97.1	87.5	76.6	71.1	71.1	70.9	70.1	69.4	70.1
85°	52.7	47.8	42.9	41.7	41.7	38.8	32.9	27.8	24.9	21.9	24.9
87.5°	14.5	15.1	15.8	13.5	10.0	8.2	8.2	8.4	8.5	8.5	8.5
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



TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**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

TEST NUMBER: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2148.6	2147.4	2146.6	2151.7	2162.6	2167.9	2156.2	2144.5	2156.2	2167.9	2162.6
5°	2162.3	2158.4	2156.4	2160.8	2171.5	2175.4	2158.8	2142.3	2158.8	2175.4	2171.5
7.5°	2198.6	2191.1	2185.5	2185.4	2190.8	2189.0	2165.4	2141.8	2165.4	2189.0	2190.8
10°	2200.5	2196.4	2195.4	2196.9	2200.8	2196.6	2168.4	2140.1	2168.4	2196.6	2200.8
12.5°	2167.4	2166.5	2167.9	2176.4	2192.0	2195.5	2162.5	2129.5	2162.5	2195.5	2192.0
15°	2117.1	2113.7	2110.8	2126.4	2160.5	2176.4	2137.4	2098.4	2137.4	2176.4	2160.5
17.5°	2088.0	2077.7	2067.2	2078.2	2110.8	2125.0	2084.3	2043.5	2084.3	2125.0	2110.8
20°	2074.0	2059.6	2045.9	2052.3	2078.6	2088.4	2048.4	2008.4	2048.4	2088.4	2078.6
22.5°	2066.8	2046.7	2027.6	2028.9	2050.5	2056.8	2016.8	1976.8	2016.8	2056.8	2050.5
25°	2065.2	2034.7	2002.5	1991.8	2002.5	2001.8	1966.7	1931.5	1966.7	2001.8	2002.5
27.5°	2058.5	2021.4	1977.9	1950.5	1939.2	1925.5	1904.8	1884.1	1904.8	1925.5	1939.2
30°	2027.6	1997.4	1959.3	1925.7	1896.4	1871.1	1857.4	1843.7	1857.4	1871.1	1896.4
32.5°	1962.3	1949.4	1929.3	1896.8	1851.9	1816.2	1808.0	1799.8	1808.0	1816.2	1851.9
35°	1834.7	1851.1	1866.7	1845.2	1786.7	1741.1	1734.2	1727.4	1734.2	1741.1	1786.7
37.5°	1665.9	1705.5	1751.1	1751.5	1706.6	1669.5	1655.4	1641.4	1655.4	1669.5	1706.6
40°	1528.2	1585.5	1653.8	1675.2	1649.9	1625.0	1601.6	1578.2	1601.6	1625.0	1649.9
42.5°	1370.5	1443.2	1530.3	1576.3	1581.4	1575.8	1538.4	1500.9	1538.4	1575.8	1581.4
45°	1146.2	1225.5	1320.1	1395.2	1450.9	1479.9	1429.1	1378.4	1429.1	1479.9	1450.9
47.5°	950.1	1021.2	1105.7	1193.1	1283.5	1338.2	1286.1	1234.0	1286.1	1338.2	1283.5
50°	829.9	897.7	976.7	1064.5	1161.1	1223.1	1181.1	1139.2	1181.1	1223.1	1161.1
52.5°	718.3	785.3	864.4	949.8	1041.7	1103.1	1072.8	1042.6	1072.8	1103.1	1041.7
55°	571.9	633.6	708.7	786.8	867.7	924.6	908.9	893.3	908.9	924.6	867.7
57.5°	462.3	514.1	577.9	647.3	722.4	776.3	766.3	756.4	766.3	776.3	722.4
60°	405.1	445.6	495.3	557.8	632.9	687.5	680.7	673.8	680.7	687.5	632.9
62.5°	356.7	388.8	428.4	484.2	556.2	608.9	603.6	598.3	603.6	608.9	556.2
65°	294.6	319.0	349.2	395.1	456.5	501.4	496.5	491.7	496.5	501.4	456.5
67.5°	244.7	264.1	287.9	324.9	375.0	412.0	409.5	406.9	409.5	412.0	375.0
70°	211.7	229.0	250.5	283.1	327.0	359.7	358.8	357.8	358.8	359.7	327.0
72.5°	184.0	198.0	215.5	243.5	282.0	311.1	312.5	313.9	312.5	311.1	282.0
75°	144.4	153.6	165.4	186.8	218.0	242.2	245.1	248.0	245.1	242.2	218.0
77.5°	111.5	114.4	118.3	133.2	158.9	179.0	182.1	185.3	182.1	179.0	158.9
80°	92.2	92.2	92.2	101.9	121.5	137.1	141.0	144.9	141.0	137.1	121.5
82.5°	70.9	71.1	71.1	76.6	87.5	97.1	102.5	108.0	102.5	97.1	87.5
85°	27.8	32.9	38.8	41.7	41.7	42.9	47.8	52.7	47.8	42.9	41.7
87.5°	8.4	8.2	8.2	10.0	13.5	15.8	15.1	14.5	15.1	15.7	13.8
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: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2	2153.2
2.5°	2151.7	2146.6	2147.4	2148.6	2150.9	2153.2	2150.9	2148.6	2147.4	2146.6	2151.7
5°	2160.8	2156.4	2158.4	2162.3	2172.0	2181.8	2172.0	2162.3	2158.4	2156.4	2160.8
7.5°	2185.4	2185.5	2191.1	2198.6	2211.5	2224.3	2211.5	2198.6	2191.1	2185.5	2185.4
10°	2196.9	2195.4	2196.4	2200.5	2214.2	2227.9	2214.2	2200.5	2196.4	2195.4	2196.9
12.5°	2176.4	2167.9	2166.5	2167.4	2174.8	2182.2	2174.8	2167.4	2166.5	2167.9	2176.4
15°	2126.4	2110.8	2113.7	2117.1	2122.0	2126.9	2122.0	2117.1	2113.7	2110.8	2126.4
17.5°	2078.2	2067.2	2077.7	2088.0	2097.6	2107.1	2097.6	2088.0	2077.7	2067.2	2078.2
20°	2052.3	2045.9	2059.6	2074.0	2090.6	2107.1	2090.6	2074.0	2059.6	2045.9	2052.3
22.5°	2028.9	2027.6	2046.7	2066.8	2089.6	2112.4	2089.6	2066.8	2046.7	2027.6	2028.9
25°	1991.8	2002.5	2034.7	2065.2	2090.6	2115.9	2090.6	2065.2	2034.7	2002.5	1991.8
27.5°	1950.5	1977.9	2021.4	2058.5	2076.2	2094.0	2076.2	2058.5	2021.4	1977.9	1950.5
30°	1925.7	1959.3	1997.4	2027.6	2034.5	2041.3	2034.5	2027.6	1997.4	1959.3	1925.7
32.5°	1896.8	1929.3	1949.4	1962.3	1953.5	1944.7	1953.5	1962.3	1949.4	1929.3	1896.8
35°	1845.2	1866.7	1851.1	1834.7	1816.2	1797.7	1816.2	1834.7	1851.1	1866.7	1845.2
37.5°	1751.5	1751.1	1705.5	1665.9	1644.6	1623.4	1644.6	1665.9	1705.5	1751.1	1751.5
40°	1675.2	1653.8	1585.5	1528.2	1503.8	1479.4	1503.8	1528.2	1585.5	1653.8	1675.2
42.5°	1576.3	1530.3	1443.2	1370.5	1340.7	1310.8	1340.7	1370.5	1443.2	1530.3	1576.3
45°	1395.2	1320.1	1225.5	1146.2	1113.1	1079.9	1113.1	1146.2	1225.5	1320.1	1395.2
47.5°	1193.1	1105.7	1021.2	950.1	919.1	888.1	919.1	950.1	1021.2	1105.7	1193.1
50°	1064.5	976.7	897.7	829.9	795.8	761.6	795.8	829.9	897.7	976.7	1064.5
52.5°	949.8	864.4	785.3	718.3	687.3	656.3	687.3	718.3	785.3	864.4	949.8
55°	786.8	708.7	633.6	571.9	550.4	529.0	550.4	571.9	633.6	708.7	786.8
57.5°	647.3	577.9	514.1	462.3	446.5	430.6	446.5	462.3	514.1	577.9	647.3
60°	557.8	495.3	445.6	405.1	392.4	379.7	392.4	405.1	445.6	495.3	557.8
62.5°	484.2	428.4	388.8	356.7	347.1	337.6	347.1	356.7	388.8	428.4	484.2
65°	395.1	349.2	319.0	294.6	287.8	281.0	287.8	294.6	319.0	349.2	395.1
67.5°	324.9	287.9	264.1	244.7	238.2	231.8	238.2	244.7	264.1	287.9	324.9
70°	283.1	250.5	229.0	211.7	206.8	201.9	206.8	211.7	229.0	250.5	283.1
72.5°	243.5	215.5	198.0	184.0	180.7	177.4	180.7	184.0	198.0	215.5	243.5
75°	186.8	165.4	153.6	144.4	142.4	140.5	142.4	144.4	153.6	165.4	186.8
77.5°	133.2	118.3	114.4	111.5	111.5	111.5	111.5	111.5	114.4	118.3	133.2
80°	101.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	101.9
82.5°	76.6	71.1	71.1	70.9	70.1	69.4	70.1	70.9	71.1	71.1	76.6
85°	41.7	38.8	32.9	27.8	24.9	21.9	24.9	27.8	32.9	38.8	41.7
87.5°	10.6	9.7	10.8	11.4	12.0	11.7	12.0	11.4	10.8	9.7	10.6
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	43.2	34.4	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: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2153.2	2153.2	2153.2	2153.2
2.5°	2162.6	2167.9	2156.2	2144.5
5°	2171.5	2175.4	2158.8	2142.3
7.5°	2190.8	2189.0	2165.4	2141.8
10°	2200.8	2196.6	2168.4	2140.1
12.5°	2192.0	2195.5	2162.5	2129.5
15°	2160.5	2176.4	2137.4	2098.4
17.5°	2110.8	2125.0	2084.3	2043.5
20°	2078.6	2088.4	2048.4	2008.4
22.5°	2050.5	2056.8	2016.8	1976.8
25°	2002.5	2001.8	1966.7	1931.5
27.5°	1939.2	1925.5	1904.8	1884.1
30°	1896.4	1871.1	1857.4	1843.7
32.5°	1851.9	1816.2	1808.0	1799.8
35°	1786.7	1741.1	1734.2	1727.4
37.5°	1706.6	1669.5	1655.4	1641.4
40°	1649.9	1625.0	1601.6	1578.2
42.5°	1581.4	1575.8	1538.4	1500.9
45°	1450.9	1479.9	1429.1	1378.4
47.5°	1283.5	1338.2	1286.1	1234.0
50°	1161.1	1223.1	1181.1	1139.2
52.5°	1041.7	1103.1	1072.8	1042.6
55°	867.7	924.6	908.9	893.3
57.5°	722.4	776.3	766.3	756.4
60°	632.9	687.5	680.7	673.8
62.5°	556.2	608.9	603.6	598.3
65°	456.5	501.4	496.5	491.7
67.5°	375.0	412.0	409.5	406.9
70°	327.0	359.7	358.8	357.8
72.5°	282.0	311.1	312.5	313.9
75°	218.0	242.2	245.1	248.0
77.5°	158.9	179.0	182.1	185.3
80°	121.5	137.1	141.0	144.9
82.5°	87.5	97.1	102.5	108.0
85°	41.7	42.9	47.8	52.7
87.5°	13.8	15.7	15.1	14.5
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: P1428216

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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: P1428216  
 CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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	20.75	21.77	21.52	22.55	23.50	17.12	18.14	17.89	18.92	19.87
	3H	21.97	22.88	22.75	23.67	24.65	18.30	19.21	19.08	20.00	20.97
	4H	22.47	23.32	23.26	24.12	25.11	18.77	19.62	19.57	20.42	21.41
	6H	22.77	23.56	23.58	24.37	25.37	19.12	19.91	19.93	20.71	21.72
	8H	22.88	23.63	23.70	24.45	25.46	19.26	20.01	20.08	20.84	21.84
	12H	22.92	23.64	23.75	24.46	25.48	19.30	20.01	20.12	20.83	21.86
4H	2H	20.88	21.73	21.68	22.53	23.52	17.85	18.71	18.66	19.51	20.50
	3H	22.35	23.06	23.17	23.89	24.90	19.22	19.93	20.04	20.77	21.77
	4H	22.99	23.63	23.81	24.46	25.49	19.78	20.42	20.60	21.25	22.28
	6H	23.43	23.98	24.27	24.84	25.88	20.22	20.77	21.06	21.63	22.67
	8H	23.59	24.10	24.43	24.96	26.01	20.40	20.92	21.25	21.77	22.82
	12H	23.66	24.12	24.53	25.00	26.05	20.46	20.92	21.32	21.79	22.85
8H	4H	23.02	23.54	23.87	24.39	25.44	20.11	20.63	20.96	21.48	22.53
	6H	23.56	23.99	24.43	24.88	25.93	20.66	21.09	21.53	21.98	23.03
	8H	23.79	24.17	24.68	25.06	26.13	20.92	21.30	21.81	22.19	23.26
	12H	23.92	24.26	24.81	25.14	26.26	21.02	21.36	21.91	22.24	23.36
12H	4H	22.99	23.45	23.85	24.33	25.38	20.14	20.60	21.01	21.48	22.53
	6H	23.55	23.93	24.44	24.82	25.89	20.73	21.11	21.62	22.00	23.07
	8H	23.81	24.14	24.69	25.02	26.14	21.03	21.36	21.91	22.24	23.36