

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: P1428215

Luminaire Tested: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428215
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-L830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

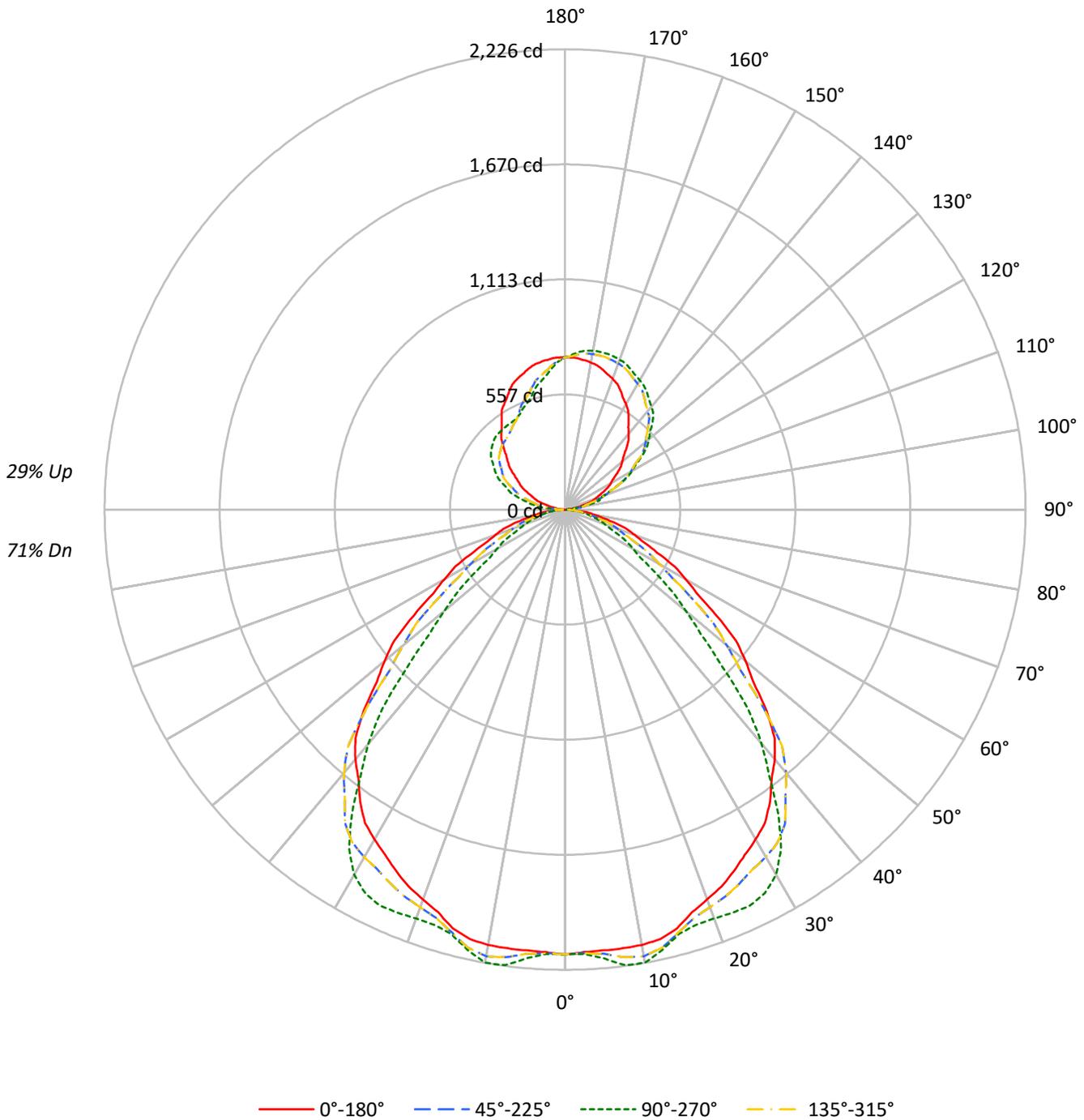
Lumens per Lamp: N/A
Luminaire Lumens: 7327.6 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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	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°	34734	34734	34734	34734
5°	34688	35329	34688	35329
10°	35053	36493	35053	36493
15°	35043	35520	35043	35520
20°	34477	36171	34477	36171
25°	34379	37660	34379	37660
30°	34343	38021	34343	38021
35°	34018	35399	34018	35399
40°	33231	31153	33231	31153
45°	31446	24635	31446	24635
50°	28587	19115	28587	19115
55°	25123	14877	25123	14877
60°	21738	12251	21738	12251
65°	18766	10724	18766	10724
70°	16876	9526	16876	9526
75°	15458	8752	15458	8752
80°	13454	8563	13454	8563
85°	9744	4057	9744	4057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 33759 cd/sqm



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	2.8
10°-20°	601.4	8.2
20°-30°	929.7	12.7
30°-40°	1118.0	15.3
40°-50°	1004.0	13.7
50°-60°	672.7	9.2
60°-70°	391.3	5.3
70°-80°	201.0	2.7
80°-90°	52.6	0.7
90°-100°	58.6	0.8
100°-110°	170.8	2.3
110°-120°	278.8	3.8
120°-130°	353.7	4.8
130°-140°	378.5	5.2
140°-150°	353.4	4.8
150°-160°	290.8	4.0
160°-170°	195.1	2.7
170°-180°	69.3	0.9
0°-30°	1738.9	23.7
0°-40°	2856.9	39.0
0°-60°	4533.7	61.9
0°-90°	5178.6	70.7
90°-120°	508.2	6.9
90°-150°	1593.8	21.8
90°-180°	2149.0	29.3
0°-180°	7327.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2151	2151	2151	2151	2151	
5°	2140	2180	2140	2180	2140	204
15°	2096	2125	2096	2125	2096	589
25°	1930	2114	1930	2114	1930	890
35°	1726	1796	1726	1796	1726	1076
45°	1377	1079	1377	1079	1377	1053
55°	892	528	892	528	892	802
65°	491	281	491	281	491	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°	108	174	108	239	108	115
115°	208	288	208	355	208	205
125°	308	457	308	436	308	275
135°	418	598	418	482	418	323
145°	534	690	534	493	534	334
155°	635	749	635	512	635	292
165°	702	781	702	589	702	198
175°	734	765	734	691	734	70
180°	736	736	736	736	736	



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2142.5	2154.2	2165.9	2160.6	2149.7	2144.7	2145.4	2146.6	2149.0	2151.3	2149.0
5°	2140.3	2156.9	2173.5	2169.6	2158.8	2154.5	2156.4	2160.3	2170.1	2179.8	2170.1
7.5°	2139.9	2163.5	2187.1	2188.9	2183.4	2183.5	2189.2	2196.6	2209.5	2222.3	2209.5
10°	2138.1	2166.4	2194.7	2198.8	2194.9	2193.4	2194.4	2198.6	2212.2	2225.9	2212.2
12.5°	2127.6	2160.5	2193.5	2190.0	2174.4	2166.0	2164.6	2165.4	2172.8	2180.2	2172.8
15°	2096.5	2135.5	2174.4	2158.6	2124.5	2108.9	2111.8	2115.2	2120.1	2125.0	2120.1
17.5°	2041.6	2082.4	2123.1	2108.9	2076.3	2065.3	2075.9	2086.1	2095.7	2105.2	2095.7
20°	2006.6	2046.5	2086.5	2076.7	2050.4	2044.1	2057.7	2072.1	2088.7	2105.2	2088.7
22.5°	1975.0	2014.9	2054.9	2048.7	2027.0	2025.8	2044.9	2064.9	2087.7	2110.5	2087.7
25°	1929.8	1964.9	2000.0	2000.7	1990.0	2000.7	2032.9	2063.3	2088.7	2114.0	2088.7
27.5°	1882.4	1903.1	1923.8	1937.4	1948.7	1976.1	2019.6	2056.6	2074.3	2092.1	2074.3
30°	1842.1	1855.7	1869.4	1894.7	1924.0	1957.6	1995.6	2025.8	2032.6	2039.4	2032.6
32.5°	1798.2	1806.4	1814.6	1850.3	1895.1	1927.6	1947.6	1960.5	1951.7	1943.0	1951.7
35°	1725.9	1732.7	1739.5	1785.1	1843.5	1865.0	1849.4	1833.1	1814.5	1796.0	1814.5
37.5°	1639.9	1653.9	1668.0	1705.1	1749.9	1749.5	1703.9	1664.4	1643.2	1621.9	1643.2
40°	1576.7	1600.1	1623.5	1648.4	1673.7	1652.3	1584.0	1526.8	1502.4	1478.1	1502.4
42.5°	1499.5	1537.0	1574.4	1580.0	1574.9	1528.9	1441.9	1369.3	1339.5	1309.6	1339.5
45°	1377.2	1427.9	1478.5	1449.5	1394.0	1318.9	1224.4	1145.2	1112.1	1078.9	1112.1
47.5°	1232.9	1284.9	1337.0	1282.3	1192.0	1104.7	1020.3	949.3	918.3	887.3	918.3
50°	1138.1	1180.1	1222.0	1160.1	1063.6	975.9	896.9	829.2	795.1	761.0	795.1
52.5°	1041.7	1071.9	1102.1	1040.8	949.0	863.6	784.6	717.7	686.7	655.7	686.7
55°	892.5	908.1	923.7	866.9	786.1	708.1	633.0	571.4	549.9	528.5	549.9
57.5°	755.7	765.6	775.6	721.8	646.7	577.3	513.6	461.8	446.0	430.3	446.0
60°	673.2	680.1	686.9	632.3	557.3	494.9	445.2	404.7	392.1	379.4	392.1
62.5°	597.8	603.1	608.3	555.7	483.8	428.0	388.4	356.4	346.8	337.3	346.8
65°	491.2	496.1	501.0	456.1	394.7	348.9	318.7	294.3	287.5	280.7	287.5
67.5°	406.6	409.1	411.6	374.7	324.6	287.7	263.9	244.4	238.0	231.6	238.0
70°	357.5	358.4	359.4	326.8	282.9	250.2	228.8	211.5	206.6	201.8	206.6
72.5°	313.6	312.2	310.9	281.7	243.3	215.3	197.8	183.8	180.5	177.2	180.5
75°	247.8	244.9	242.0	217.8	186.6	165.2	153.5	144.2	142.3	140.3	142.3
77.5°	185.1	182.0	178.8	158.8	133.0	118.2	114.3	111.4	111.4	111.4	111.4
80°	144.7	140.8	136.9	121.3	101.9	92.1	92.1	92.1	92.1	92.1	92.1
82.5°	107.9	102.4	97.0	87.4	76.5	71.1	71.1	70.9	70.1	69.3	70.1
85°	52.6	47.8	42.9	41.7	41.7	38.7	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	17.2	18.4	18.6	19.3	19.3	19.3
95°	23.0	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.0	47.3	49.4	66.2	69.9	67.5	55.0	46.2	41.3	39.1	41.3
100°	62.4	63.9	68.4	69.1	87.7	105.6	96.6	85.5	81.8	79.5	81.8
102.5°	80.9	81.8	88.6	91.7	96.1	106.2	137.1	133.7	131.1	130.7	131.1
105°	108.5	109.3	121.9	127.9	130.8	130.8	130.1	145.0	168.8	174.0	168.8
107.5°	138.1	141.5	156.4	172.3	175.7	176.6	172.8	170.5	169.6	170.2	169.6
110°	158.3	163.6	181.4	201.5	206.7	208.2	206.7	204.4	203.0	203.0	203.0



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.0	185.6	205.8	228.8	237.6	242.1	238.8	237.2	235.7	236.9	235.7
115°	208.2	219.3	246.1	269.9	287.7	289.9	289.2	289.2	288.4	288.4	288.4
117.5°	236.1	254.0	284.0	311.6	332.3	338.3	341.2	340.3	339.4	340.9	339.4
120°	255.7	276.6	310.8	342.0	362.0	371.0	373.9	372.5	373.9	372.5	373.9
122.5°	276.6	302.1	335.7	368.1	391.8	401.9	405.5	405.8	406.1	405.2	406.1
125°	307.8	339.0	378.4	411.9	436.4	448.3	451.3	452.0	453.5	457.2	453.5
127.5°	339.3	374.7	418.0	450.2	475.3	489.8	494.4	496.0	499.1	500.8	499.1
130°	361.3	401.4	445.3	475.8	500.3	515.9	524.1	526.3	530.1	529.3	530.1
132.5°	384.5	426.4	470.9	502.6	525.3	542.1	549.1	555.5	556.8	557.9	556.8
135°	418.5	463.9	508.5	539.7	561.3	577.6	586.6	592.5	596.2	598.5	596.2
137.5°	454.4	502.3	545.1	572.9	594.6	608.7	618.8	625.1	628.9	630.7	628.9
140°	478.8	524.9	566.5	595.5	614.8	628.9	637.9	645.3	649.8	649.8	649.8
142.5°	502.0	547.5	587.9	616.9	633.8	646.8	656.3	661.9	667.0	667.0	667.0
145°	534.5	579.9	617.0	646.0	660.2	672.1	682.5	686.9	689.9	689.9	689.9
147.5°	568.6	608.7	642.6	670.4	682.3	696.3	704.5	708.0	711.8	710.1	711.8
150°	588.8	626.0	658.7	684.7	696.6	710.0	718.1	721.1	724.8	722.6	724.8
152.5°	608.4	643.8	673.5	697.8	707.9	721.3	730.6	733.6	736.1	734.5	736.1
155°	634.9	666.1	693.6	715.9	724.8	737.5	746.4	750.1	753.1	749.4	753.1
157.5°	658.5	685.4	709.4	729.9	739.4	750.3	758.6	763.2	766.2	764.5	766.2
160°	672.8	697.3	718.9	738.2	747.1	756.8	765.7	770.9	773.9	771.7	773.9
162.5°	684.7	706.8	727.2	744.8	752.5	761.0	771.7	776.3	779.3	776.4	779.3
165°	701.8	719.6	737.5	752.3	759.0	765.7	776.9	782.1	784.3	781.3	784.3
167.5°	714.7	728.4	742.8	755.6	760.5	767.1	778.2	782.5	785.4	781.6	785.4
170°	721.9	733.8	746.4	756.8	760.5	766.5	777.6	781.3	783.6	779.9	783.6
172.5°	727.8	736.7	747.0	756.2	758.1	762.9	773.5	777.2	778.8	775.7	778.8
175°	733.8	739.0	746.4	752.3	751.6	754.6	763.5	766.5	769.4	765.0	769.4
177.5°	736.6	739.0	741.3	744.9	742.5	742.5	749.1	750.9	751.5	749.1	751.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2146.6	2145.4	2144.7	2149.7	2160.6	2165.9	2154.2	2142.5	2154.2	2165.9	2160.6
5°	2160.3	2156.4	2154.5	2158.8	2169.6	2173.5	2156.9	2140.3	2156.9	2173.5	2169.6
7.5°	2196.6	2189.2	2183.5	2183.4	2188.9	2187.1	2163.5	2139.9	2163.5	2187.1	2188.9
10°	2198.6	2194.4	2193.4	2194.9	2198.8	2194.7	2166.4	2138.1	2166.4	2194.7	2198.8
12.5°	2165.4	2164.6	2166.0	2174.4	2190.0	2193.5	2160.5	2127.6	2160.5	2193.5	2190.0
15°	2115.2	2111.8	2108.9	2124.5	2158.6	2174.4	2135.5	2096.5	2135.5	2174.4	2158.6
17.5°	2086.1	2075.9	2065.3	2076.3	2108.9	2123.1	2082.4	2041.6	2082.4	2123.1	2108.9
20°	2072.1	2057.7	2044.1	2050.4	2076.7	2086.5	2046.5	2006.6	2046.5	2086.5	2076.7
22.5°	2064.9	2044.9	2025.8	2027.0	2048.7	2054.9	2014.9	1975.0	2014.9	2054.9	2048.7
25°	2063.3	2032.9	2000.7	1990.0	2000.7	2000.0	1964.9	1929.8	1964.9	2000.0	2000.7
27.5°	2056.6	2019.6	1976.1	1948.7	1937.4	1923.8	1903.1	1882.4	1903.1	1923.8	1937.4
30°	2025.8	1995.6	1957.6	1924.0	1894.7	1869.4	1855.7	1842.1	1855.7	1869.4	1894.7
32.5°	1960.5	1947.6	1927.6	1895.1	1850.3	1814.6	1806.4	1798.2	1806.4	1814.6	1850.3
35°	1833.1	1849.4	1865.0	1843.5	1785.1	1739.5	1732.7	1725.9	1732.7	1739.5	1785.1
37.5°	1664.4	1703.9	1749.5	1749.9	1705.1	1668.0	1653.9	1639.9	1653.9	1668.0	1705.1
40°	1526.8	1584.0	1652.3	1673.7	1648.4	1623.5	1600.1	1576.7	1600.1	1623.5	1648.4
42.5°	1369.3	1441.9	1528.9	1574.9	1580.0	1574.4	1537.0	1499.5	1537.0	1574.4	1580.0
45°	1145.2	1224.4	1318.9	1394.0	1449.5	1478.5	1427.9	1377.2	1427.9	1478.5	1449.5
47.5°	949.3	1020.3	1104.7	1192.0	1282.3	1337.0	1284.9	1232.9	1284.9	1337.0	1282.3
50°	829.2	896.9	975.9	1063.6	1160.1	1222.0	1180.1	1138.1	1180.1	1222.0	1160.1
52.5°	717.7	784.6	863.6	949.0	1040.8	1102.1	1071.9	1041.7	1071.9	1102.1	1040.8
55°	571.4	633.0	708.1	786.1	866.9	923.7	908.1	892.5	908.1	923.7	866.9
57.5°	461.8	513.6	577.3	646.7	721.8	775.6	765.6	755.7	765.6	775.6	721.8
60°	404.7	445.2	494.9	557.3	632.3	686.9	680.1	673.2	680.1	686.9	632.3
62.5°	356.4	388.4	428.0	483.8	555.7	608.3	603.1	597.8	603.1	608.3	555.7
65°	294.3	318.7	348.9	394.7	456.1	501.0	496.1	491.2	496.1	501.0	456.1
67.5°	244.4	263.9	287.7	324.6	374.7	411.6	409.1	406.6	409.1	411.6	374.7
70°	211.5	228.8	250.2	282.9	326.8	359.4	358.4	357.5	358.4	359.4	326.8
72.5°	183.8	197.8	215.3	243.3	281.7	310.9	312.2	313.6	312.2	310.9	281.7
75°	144.2	153.5	165.2	186.6	217.8	242.0	244.9	247.8	244.9	242.0	217.8
77.5°	111.4	114.3	118.2	133.0	158.8	178.8	182.0	185.1	182.0	178.8	158.8
80°	92.1	92.1	92.1	101.9	121.3	136.9	140.8	144.7	140.8	136.9	121.3
82.5°	70.9	71.1	71.1	76.5	87.4	97.0	102.4	107.9	102.4	97.0	87.4
85°	27.8	32.9	38.7	41.7	41.7	42.9	47.8	52.6	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	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.2	238.8	242.1	237.6	228.8	205.8	185.6	178.0	193.6	219.5	243.1
115°	289.2	289.2	289.9	287.7	269.9	246.1	219.3	208.2	221.5	245.3	271.4
117.5°	340.3	341.2	338.3	332.3	311.6	284.0	254.0	236.1	246.7	271.8	298.6
120°	372.5	373.9	371.0	362.0	342.0	310.8	276.6	255.7	263.9	288.4	315.2
122.5°	405.8	405.5	401.9	391.8	368.1	335.7	302.1	276.6	280.0	302.7	328.9
125°	452.0	451.3	448.3	436.4	411.9	378.4	339.0	307.8	303.3	322.6	349.4
127.5°	496.0	494.4	489.8	475.3	450.2	418.0	374.7	339.3	329.3	341.5	366.1
130°	526.3	524.1	515.9	500.3	475.8	445.3	401.4	361.3	347.2	354.6	376.2
132.5°	555.5	549.1	542.1	525.3	502.6	470.9	426.4	384.5	365.0	368.3	385.1
135°	592.5	586.6	577.6	561.3	539.7	508.5	463.9	418.5	391.8	388.8	398.5
137.5°	625.1	618.8	608.7	594.6	572.9	545.1	502.3	454.4	420.6	410.7	414.4
140°	645.3	637.9	628.9	614.8	595.5	566.5	524.9	478.8	440.9	426.7	424.5
142.5°	661.9	656.3	646.8	633.8	616.9	587.9	547.5	502.0	461.7	443.4	438.2
145°	686.9	682.5	672.1	660.2	646.0	617.0	579.9	534.5	494.4	470.6	459.4
147.5°	708.0	704.5	696.3	682.3	670.4	642.6	608.7	568.6	527.4	497.9	483.5
150°	721.1	718.1	710.0	696.6	684.7	658.7	626.0	588.8	549.4	518.2	499.6
152.5°	733.6	730.6	721.3	707.9	697.8	673.5	643.8	608.4	568.4	537.2	518.0
155°	750.1	746.4	737.5	724.8	715.9	693.6	666.1	634.9	600.7	568.0	546.4
157.5°	763.2	758.6	750.3	739.4	729.9	709.4	685.4	658.5	628.6	597.4	575.4
160°	770.9	765.7	756.8	747.1	738.2	718.9	697.3	672.8	645.3	617.0	593.3
162.5°	776.3	771.7	761.0	752.5	744.8	727.2	706.8	684.7	660.2	635.5	613.5
165°	782.1	776.9	765.7	759.0	752.3	737.5	719.6	701.8	681.0	660.9	643.1
167.5°	782.5	778.2	767.1	760.5	755.6	742.8	728.4	714.7	698.5	682.8	667.9
170°	781.3	777.6	766.5	760.5	756.8	746.4	733.8	721.9	709.2	695.8	684.0
172.5°	777.2	773.5	762.9	758.1	756.2	747.0	736.7	727.8	717.0	707.1	697.6
175°	766.5	763.5	754.6	751.6	752.3	746.4	739.0	733.8	727.1	721.1	715.9
177.5°	750.9	749.1	742.5	742.5	744.9	741.3	739.0	736.6	733.6	731.8	730.0
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2149.7	2144.7	2145.4	2146.6	2149.0	2151.3	2149.0	2146.6	2145.4	2144.7	2149.7
5°	2158.8	2154.5	2156.4	2160.3	2170.1	2179.8	2170.1	2160.3	2156.4	2154.5	2158.8
7.5°	2183.4	2183.5	2189.2	2196.6	2209.5	2222.3	2209.5	2196.6	2189.2	2183.5	2183.4
10°	2194.9	2193.4	2194.4	2198.6	2212.2	2225.9	2212.2	2198.6	2194.4	2193.4	2194.9
12.5°	2174.4	2166.0	2164.6	2165.4	2172.8	2180.2	2172.8	2165.4	2164.6	2166.0	2174.4
15°	2124.5	2108.9	2111.8	2115.2	2120.1	2125.0	2120.1	2115.2	2111.8	2108.9	2124.5
17.5°	2076.3	2065.3	2075.9	2086.1	2095.7	2105.2	2095.7	2086.1	2075.9	2065.3	2076.3
20°	2050.4	2044.1	2057.7	2072.1	2088.7	2105.2	2088.7	2072.1	2057.7	2044.1	2050.4
22.5°	2027.0	2025.8	2044.9	2064.9	2087.7	2110.5	2087.7	2064.9	2044.9	2025.8	2027.0
25°	1990.0	2000.7	2032.9	2063.3	2088.7	2114.0	2088.7	2063.3	2032.9	2000.7	1990.0
27.5°	1948.7	1976.1	2019.6	2056.6	2074.3	2092.1	2074.3	2056.6	2019.6	1976.1	1948.7
30°	1924.0	1957.6	1995.6	2025.8	2032.6	2039.4	2032.6	2025.8	1995.6	1957.6	1924.0
32.5°	1895.1	1927.6	1947.6	1960.5	1951.7	1943.0	1951.7	1960.5	1947.6	1927.6	1895.1
35°	1843.5	1865.0	1849.4	1833.1	1814.5	1796.0	1814.5	1833.1	1849.4	1865.0	1843.5
37.5°	1749.9	1749.5	1703.9	1664.4	1643.2	1621.9	1643.2	1664.4	1703.9	1749.5	1749.9
40°	1673.7	1652.3	1584.0	1526.8	1502.4	1478.1	1502.4	1526.8	1584.0	1652.3	1673.7
42.5°	1574.9	1528.9	1441.9	1369.3	1339.5	1309.6	1339.5	1369.3	1441.9	1528.9	1574.9
45°	1394.0	1318.9	1224.4	1145.2	1112.1	1078.9	1112.1	1145.2	1224.4	1318.9	1394.0
47.5°	1192.0	1104.7	1020.3	949.3	918.3	887.3	918.3	949.3	1020.3	1104.7	1192.0
50°	1063.6	975.9	896.9	829.2	795.1	761.0	795.1	829.2	896.9	975.9	1063.6
52.5°	949.0	863.6	784.6	717.7	686.7	655.7	686.7	717.7	784.6	863.6	949.0
55°	786.1	708.1	633.0	571.4	549.9	528.5	549.9	571.4	633.0	708.1	786.1
57.5°	646.7	577.3	513.6	461.8	446.0	430.3	446.0	461.8	513.6	577.3	646.7
60°	557.3	494.9	445.2	404.7	392.1	379.4	392.1	404.7	445.2	494.9	557.3
62.5°	483.8	428.0	388.4	356.4	346.8	337.3	346.8	356.4	388.4	428.0	483.8
65°	394.7	348.9	318.7	294.3	287.5	280.7	287.5	294.3	318.7	348.9	394.7
67.5°	324.6	287.7	263.9	244.4	238.0	231.6	238.0	244.4	263.9	287.7	324.6
70°	282.9	250.2	228.8	211.5	206.6	201.8	206.6	211.5	228.8	250.2	282.9
72.5°	243.3	215.3	197.8	183.8	180.5	177.2	180.5	183.8	197.8	215.3	243.3
75°	186.6	165.2	153.5	144.2	142.3	140.3	142.3	144.2	153.5	165.2	186.6
77.5°	133.0	118.2	114.3	111.4	111.4	111.4	111.4	111.4	114.3	118.2	133.0
80°	101.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	101.9
82.5°	76.5	71.1	71.1	70.9	70.1	69.3	70.1	70.9	71.1	71.1	76.5
85°	41.7	38.7	32.9	27.8	24.9	21.9	24.9	27.8	32.9	38.7	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°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	49.5	43.1	34.3	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	79.5	69.1	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.6	284.0	299.6	310.8	320.1	324.3	320.1	310.8	299.6	284.0	266.6
115°	297.4	320.4	334.5	344.9	351.6	355.4	351.6	344.9	334.5	320.4	297.4
117.5°	322.9	347.0	362.5	370.5	373.6	376.3	373.6	370.5	362.5	347.0	322.9
120°	339.0	361.3	379.1	389.6	393.3	394.8	393.3	389.6	379.1	361.3	339.0
122.5°	353.9	375.0	392.2	405.0	411.1	412.6	411.1	405.0	392.2	375.0	353.9
125°	374.7	394.8	412.6	425.2	431.9	435.6	431.9	425.2	412.6	394.8	374.7
127.5°	392.8	414.5	430.9	442.3	448.9	451.9	448.9	442.3	430.9	414.5	392.8
130°	402.9	425.2	441.6	454.2	460.2	463.2	460.2	454.2	441.6	425.2	402.9
132.5°	410.7	434.2	451.1	462.6	469.1	472.1	469.1	462.6	451.1	434.2	410.7
135°	420.0	444.6	462.4	473.6	479.5	482.5	479.5	473.6	462.4	444.6	420.0
137.5°	428.2	450.5	469.1	480.8	486.2	488.1	486.2	480.8	469.1	450.5	428.2
140°	434.2	453.5	472.1	483.2	489.2	489.9	489.2	483.2	472.1	453.5	434.2
142.5°	441.9	457.1	473.3	484.4	490.4	491.7	490.4	484.4	473.3	457.1	441.9
145°	455.7	464.6	475.8	486.2	491.4	492.9	491.4	486.2	475.8	464.6	455.7
147.5°	473.1	475.9	481.7	488.6	493.6	494.7	493.6	488.6	481.7	475.9	473.1
150°	486.2	485.5	487.7	492.1	496.6	495.9	496.6	492.1	487.7	485.5	486.2
152.5°	501.1	496.8	496.6	498.7	500.8	500.6	500.8	498.7	496.6	496.8	501.1
155°	526.3	518.2	513.7	512.2	512.2	511.5	512.2	512.2	513.7	518.2	526.3
157.5°	554.1	542.7	536.0	532.4	531.4	529.8	531.4	532.4	536.0	542.7	554.1
160°	573.2	560.5	553.9	547.9	545.7	543.4	545.7	547.9	553.9	560.5	573.2
162.5°	591.0	579.0	571.7	566.3	564.1	560.7	564.1	566.3	571.7	579.0	591.0
165°	620.0	607.4	599.2	594.7	591.8	588.8	591.8	594.7	599.2	607.4	620.0
167.5°	649.0	635.2	629.8	624.8	621.9	616.6	621.9	624.8	629.8	635.2	649.0
170°	666.9	654.2	651.2	646.8	641.6	635.6	641.6	646.8	651.2	654.2	666.9
172.5°	682.3	673.8	670.9	666.4	664.8	660.0	664.8	666.4	670.9	673.8	682.3
175°	704.8	698.1	698.1	697.3	695.1	690.6	695.1	697.3	698.1	698.1	704.8
177.5°	723.5	719.9	722.3	722.3	721.7	717.6	721.7	722.3	722.3	719.9	723.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2151.3	2151.3	2151.3	2151.3
2.5°	2160.6	2165.9	2154.2	2142.5
5°	2169.6	2173.5	2156.9	2140.3
7.5°	2188.9	2187.1	2163.5	2139.9
10°	2198.8	2194.7	2166.4	2138.1
12.5°	2190.0	2193.5	2160.5	2127.6
15°	2158.6	2174.4	2135.5	2096.5
17.5°	2108.9	2123.1	2082.4	2041.6
20°	2076.7	2086.5	2046.5	2006.6
22.5°	2048.7	2054.9	2014.9	1975.0
25°	2000.7	2000.0	1964.9	1929.8
27.5°	1937.4	1923.8	1903.1	1882.4
30°	1894.7	1869.4	1855.7	1842.1
32.5°	1850.3	1814.6	1806.4	1798.2
35°	1785.1	1739.5	1732.7	1725.9
37.5°	1705.1	1668.0	1653.9	1639.9
40°	1648.4	1623.5	1600.1	1576.7
42.5°	1580.0	1574.4	1537.0	1499.5
45°	1449.5	1478.5	1427.9	1377.2
47.5°	1282.3	1337.0	1284.9	1232.9
50°	1160.1	1222.0	1180.1	1138.1
52.5°	1040.8	1102.1	1071.9	1041.7
55°	866.9	923.7	908.1	892.5
57.5°	721.8	775.6	765.6	755.7
60°	632.3	686.9	680.1	673.2
62.5°	555.7	608.3	603.1	597.8
65°	456.1	501.0	496.1	491.2
67.5°	374.7	411.6	409.1	406.6
70°	326.8	359.4	358.4	357.5
72.5°	281.7	310.9	312.2	313.6
75°	217.8	242.0	244.9	247.8
77.5°	158.8	178.8	182.0	185.1
80°	121.3	136.9	140.8	144.7
82.5°	87.4	97.0	102.4	107.9
85°	41.7	42.9	47.8	52.6
87.5°	13.8	15.7	15.1	14.5
90°	13.4	8.2	5.2	2.2
92.5°	28.8	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.0
97.5°	92.3	73.2	59.9	44.0
100°	110.8	92.2	79.5	62.4
102.5°	131.0	115.4	98.0	80.9
105°	167.3	147.9	127.9	108.5
107.5°	200.9	179.6	155.5	138.1
110°	222.3	199.2	174.0	158.3



TEST NUMBER: P1428215

CATALOG NUMBER: SQ2W-PR1-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	243.1	219.5	193.6	178.0
115°	271.4	245.3	221.5	208.2
117.5°	298.6	271.8	246.7	236.1
120°	315.2	288.4	263.9	255.7
122.5°	328.9	302.7	280.0	276.6
125°	349.4	322.6	303.3	307.8
127.5°	366.1	341.5	329.3	339.3
130°	376.2	354.6	347.2	361.3
132.5°	385.1	368.3	365.0	384.5
135°	398.5	388.8	391.8	418.5
137.5°	414.4	410.7	420.6	454.4
140°	424.5	426.7	440.9	478.8
142.5°	438.2	443.4	461.7	502.0
145°	459.4	470.6	494.4	534.5
147.5°	483.5	497.9	527.4	568.6
150°	499.6	518.2	549.4	588.8
152.5°	518.0	537.2	568.4	608.4
155°	546.4	568.0	600.7	634.9
157.5°	575.4	597.4	628.6	658.5
160°	593.3	617.0	645.3	672.8
162.5°	613.5	635.5	660.2	684.7
165°	643.1	660.9	681.0	701.8
167.5°	667.9	682.8	698.5	714.7
170°	684.0	695.8	709.2	721.9
172.5°	697.6	707.1	717.0	727.8
175°	715.9	721.1	727.1	733.8
177.5°	730.0	731.8	733.6	736.6
180°	736.0	736.0	736.0	736.0



TEST NUMBER: P1428215
 CATALOG NUMBER: SQ2W-PR1-K-050U-100D-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	20.75	21.77	21.52	22.55	23.50	17.12	18.14	17.89	18.92	19.86
	3H	21.97	22.88	22.75	23.67	24.65	18.29	19.20	19.07	19.99	20.97
	4H	22.46	23.32	23.26	24.12	25.11	18.76	19.62	19.56	20.42	21.41
	6H	22.77	23.56	23.58	24.36	25.37	19.11	19.90	19.92	20.71	21.71
	8H	22.88	23.62	23.70	24.45	25.45	19.26	20.01	20.08	20.83	21.83
	12H	22.92	23.63	23.74	24.45	25.48	19.29	20.01	20.12	20.83	21.85
4H	2H	20.87	21.73	21.68	22.53	23.52	17.85	18.71	18.65	19.51	20.49
	3H	22.35	23.06	23.16	23.89	24.90	19.22	19.93	20.03	20.76	21.77
	4H	22.98	23.63	23.81	24.46	25.49	19.77	20.41	20.60	21.25	22.28
	6H	23.42	23.98	24.27	24.83	25.87	20.21	20.77	21.06	21.62	22.66
	8H	23.58	24.10	24.43	24.95	26.00	20.40	20.92	21.25	21.77	22.82
	12H	23.66	24.12	24.52	24.99	26.05	20.45	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	23.98	24.43	24.88	25.93	20.66	21.08	21.53	21.98	23.03
	8H	23.79	24.17	24.68	25.06	26.13	20.92	21.30	21.80	22.19	23.25
	12H	23.92	24.25	24.80	25.13	26.25	21.02	21.35	21.90	22.23	23.35
12H	4H	22.99	23.45	23.85	24.32	25.38	20.14	20.60	21.00	21.47	22.53
	6H	23.55	23.93	24.43	24.82	25.88	20.73	21.11	21.61	22.00	23.06
	8H	23.80	24.14	24.69	25.02	26.14	21.02	21.36	21.91	22.24	23.36