

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: P1427717

Luminaire Tested: SQ2W-F-K-050U-125D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427717
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-F-K-050U-125D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

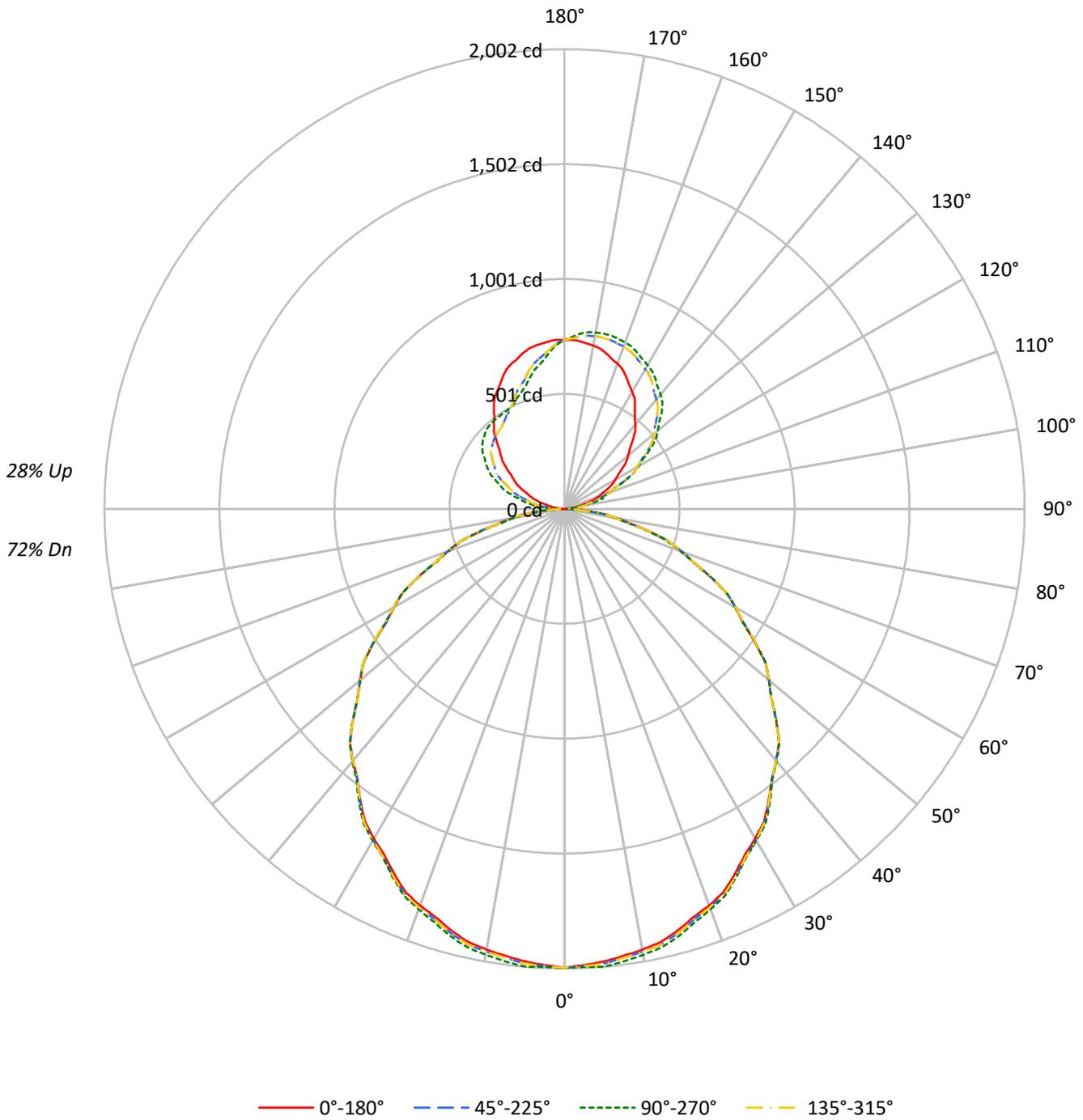
Lumens per Lamp: N/A
Luminaire Lumens: 7778.3 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ2W-F-K-050U-125D-L830-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	50	30	10	50	30	10	50	30	10	0					
RCR																																			
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	77	72	72	72	67	66	64	60	60	60	59	56	54	50				
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	64	60	60	60	59	56	54	50	50	50	49	46	42					
2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	54	50	50	50	52	49	46	42	42	42	42	39	36					
3	85	75	67	61	80	71	64	59	64	59	54	58	54	50	52	49	46	46	42	42	42	46	42	39	36	36	36	36	36	31					
4	78	66	58	51	73	63	55	50	57	51	46	52	47	42	46	42	39	38	33	30	38	33	30	27	27	27	27	27	27	27					
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	34	31	31	31	38	33	30	27	27	27	27	27	27					
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	30	27	27	27	35	30	26	24	24	24	24	24	24					
7	61	48	40	34	57	46	38	33	42	35	30	38	33	28	35	30	26	26	24	24	24	32	27	24	21	21	21	21	21	21					
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	24	21	21	21	32	27	24	21	21	21	21	21	21					
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	21	21	21	21	29	25	21	19	19	19	19	19	19					
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	19	19	19	19	27	23	19	17	17	17	17	17	17					

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	32277	32277	32277	32277
5°	32081	32445	32081	32445
10°	31966	32337	31966	32337
15°	31792	32192	31792	32192
20°	31590	31905	31590	31905
25°	31249	31525	31249	31525
30°	30918	31129	30918	31129
35°	30523	30718	30523	30718
40°	30177	30266	30177	30266
45°	29733	29733	29733	29733
50°	29137	29210	29137	29210
55°	28453	28492	28453	28492
60°	27686	27686	27686	27686
65°	26785	26678	26785	26678
70°	25520	25255	25520	25255
75°	23799	23275	23799	23275
80°	21208	20158	21208	20158
85°	16950	14338	16950	14338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 29934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	2.4
10°-20°	540.5	6.9
20°-30°	813.5	10.5
30°-40°	972.9	12.5
40°-50°	1004.6	12.9
50°-60°	906.1	11.6
60°-70°	694.1	8.9
70°-80°	401.2	5.2
80°-90°	107.2	1.4
90°-100°	58.6	0.8
100°-110°	170.8	2.2
110°-120°	278.8	3.6
120°-130°	353.7	4.5
130°-140°	378.5	4.9
140°-150°	353.4	4.5
150°-160°	290.8	3.7
160°-170°	195.1	2.5
170°-180°	69.3	0.9
0°-30°	1543.2	19.8
0°-40°	2516.1	32.3
0°-60°	4426.8	56.9
0°-90°	5629.3	72.4
90°-120°	508.2	6.5
90°-150°	1593.8	20.5
90°-180°	2149.0	27.6
0°-180°	7778.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1999	1999	1999	1999	1999	
5°	1979	2002	1979	2002	1979	188
15°	1902	1926	1902	1926	1902	536
25°	1754	1770	1754	1770	1754	808
35°	1549	1558	1549	1558	1549	969
45°	1302	1302	1302	1302	1302	1003
55°	1011	1012	1011	1012	1011	903
65°	701	698	701	698	701	693
75°	382	373	382	373	382	404
85°	92	77	92	77	92	106
90°	2	16	2	32	2	6
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	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
2.5°	1989.0	1998.5	2008.0	2004.0	1995.5	1992.2	1994.2	1996.0	1997.0	1998.0	1997.0
5°	1979.4	1991.9	2004.4	2000.0	1990.0	1985.7	1986.9	1989.4	1995.7	2001.9	1995.7
7.5°	1963.4	1975.9	1988.4	1984.4	1974.9	1970.9	1972.4	1975.1	1981.6	1988.1	1981.6
10°	1949.8	1962.4	1974.9	1970.5	1960.5	1956.7	1959.2	1962.4	1967.4	1972.4	1967.4
12.5°	1932.9	1945.5	1958.0	1954.3	1945.3	1941.6	1943.1	1945.6	1951.1	1956.6	1951.1
15°	1902.0	1914.5	1927.0	1923.6	1914.8	1911.4	1913.2	1915.9	1920.9	1925.9	1920.9
17.5°	1864.5	1876.3	1888.0	1884.9	1876.8	1873.8	1875.9	1878.6	1883.0	1887.3	1883.0
20°	1838.6	1849.9	1861.1	1857.9	1849.7	1846.0	1846.6	1848.2	1852.5	1856.9	1852.5
22.5°	1807.1	1818.3	1829.6	1826.7	1819.1	1814.6	1813.2	1813.5	1818.9	1824.3	1818.9
25°	1754.1	1765.4	1776.7	1774.3	1767.4	1763.1	1761.2	1760.9	1765.3	1769.6	1765.3
27.5°	1699.0	1708.3	1717.7	1715.8	1710.0	1706.5	1705.3	1705.1	1708.2	1711.4	1708.2
30°	1658.4	1667.8	1677.2	1674.8	1668.6	1664.8	1663.6	1663.4	1666.6	1669.7	1666.6
32.5°	1615.6	1624.5	1633.4	1630.2	1622.9	1619.2	1618.9	1619.6	1623.3	1626.9	1623.3
35°	1548.6	1556.1	1563.6	1560.3	1553.5	1550.3	1551.0	1552.2	1555.3	1558.5	1555.3
37.5°	1481.3	1487.1	1492.8	1489.5	1483.1	1479.8	1479.7	1480.3	1482.9	1485.5	1482.9
40°	1431.8	1438.0	1444.3	1440.7	1433.8	1430.0	1429.4	1429.7	1432.9	1436.0	1432.9
42.5°	1381.1	1385.8	1390.6	1387.4	1381.5	1378.7	1379.1	1379.8	1381.4	1383.0	1381.4
45°	1302.2	1306.6	1311.0	1307.9	1302.2	1299.4	1299.4	1299.7	1301.0	1302.2	1301.0
47.5°	1219.7	1223.1	1226.5	1224.1	1219.7	1217.1	1216.4	1216.3	1218.3	1220.3	1218.3
50°	1160.0	1164.4	1168.8	1166.6	1162.2	1159.4	1158.2	1157.9	1160.4	1162.9	1160.4
52.5°	1101.5	1106.4	1111.2	1109.2	1104.8	1101.7	1100.0	1099.2	1101.2	1103.2	1101.2
55°	1010.8	1016.4	1022.1	1020.7	1016.9	1013.8	1011.3	1009.7	1011.0	1012.2	1011.0
57.5°	918.2	923.7	929.2	928.1	924.9	921.7	918.7	916.9	918.7	920.4	918.7
60°	857.4	862.4	867.4	865.8	862.1	858.9	856.4	854.9	856.1	857.4	856.1
62.5°	795.4	800.4	805.4	803.5	799.2	795.9	793.4	791.8	793.0	794.3	793.0
65°	701.1	705.5	709.9	708.1	704.4	701.3	698.8	697.0	697.7	698.3	697.7
67.5°	605.9	609.7	613.4	611.7	608.0	604.4	600.8	598.3	599.3	600.3	599.3
70°	540.6	544.4	548.1	546.7	543.6	540.4	537.3	535.0	535.0	535.0	535.0
72.5°	477.5	480.8	484.0	482.1	478.5	475.4	472.7	470.8	470.8	470.8	470.8
75°	381.5	383.4	385.3	384.3	382.5	380.0	376.8	374.3	373.7	373.1	373.7
77.5°	288.9	288.9	288.9	287.1	284.7	282.3	280.0	278.0	277.2	276.5	277.2
80°	228.1	228.1	228.1	226.7	224.8	222.9	221.0	219.3	218.1	216.8	218.1
82.5°	171.8	170.8	169.8	168.1	166.2	163.8	161.0	159.1	160.4	161.6	160.4
85°	91.5	90.3	89.0	87.3	85.4	83.2	80.7	78.7	78.1	77.4	78.1
87.5°	28.6	28.2	27.9	27.2	26.1	24.5	22.5	21.0	20.7	20.2	20.7
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



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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



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
2.5°	1996.0	1994.2	1992.2	1995.5	2004.0	2008.0	1998.5	1989.0	1998.5	2008.0	2004.0
5°	1989.4	1986.9	1985.7	1990.0	2000.0	2004.4	1991.9	1979.4	1991.9	2004.4	2000.0
7.5°	1975.1	1972.4	1970.9	1974.9	1984.4	1988.4	1975.9	1963.4	1975.9	1988.4	1984.4
10°	1962.4	1959.2	1956.7	1960.5	1970.5	1974.9	1962.4	1949.8	1962.4	1974.9	1970.5
12.5°	1945.6	1943.1	1941.6	1945.3	1954.3	1958.0	1945.5	1932.9	1945.5	1958.0	1954.3
15°	1915.9	1913.2	1911.4	1914.8	1923.6	1927.0	1914.5	1902.0	1914.5	1927.0	1923.6
17.5°	1878.6	1875.9	1873.8	1876.8	1884.9	1888.0	1876.3	1864.5	1876.3	1888.0	1884.9
20°	1848.2	1846.6	1846.0	1849.7	1857.9	1861.1	1849.9	1838.6	1849.9	1861.1	1857.9
22.5°	1813.5	1813.2	1814.6	1819.1	1826.7	1829.6	1818.3	1807.1	1818.3	1829.6	1826.7
25°	1760.9	1761.2	1763.1	1767.4	1774.3	1776.7	1765.4	1754.1	1765.4	1776.7	1774.3
27.5°	1705.1	1705.3	1706.5	1710.0	1715.8	1717.7	1708.3	1699.0	1708.3	1717.7	1715.8
30°	1663.4	1663.6	1664.8	1668.6	1674.8	1677.2	1667.8	1658.4	1667.8	1677.2	1674.8
32.5°	1619.6	1618.9	1619.2	1622.9	1630.2	1633.4	1624.5	1615.6	1624.5	1633.4	1630.2
35°	1552.2	1551.0	1550.3	1553.5	1560.3	1563.6	1556.1	1548.6	1556.1	1563.6	1560.3
37.5°	1480.3	1479.7	1479.8	1483.1	1489.5	1492.8	1487.1	1481.3	1487.1	1492.8	1489.5
40°	1429.7	1429.4	1430.0	1433.8	1440.7	1444.3	1438.0	1431.8	1438.0	1444.3	1440.7
42.5°	1379.8	1379.1	1378.7	1381.5	1387.4	1390.6	1385.8	1381.1	1385.8	1390.6	1387.4
45°	1299.7	1299.4	1299.4	1302.2	1307.9	1311.0	1306.6	1302.2	1306.6	1311.0	1307.9
47.5°	1216.3	1216.4	1217.1	1219.7	1224.1	1226.5	1223.1	1219.7	1223.1	1226.5	1224.1
50°	1157.9	1158.2	1159.4	1162.2	1166.6	1168.8	1164.4	1160.0	1164.4	1168.8	1166.6
52.5°	1099.2	1100.0	1101.7	1104.8	1109.2	1111.2	1106.4	1101.5	1106.4	1111.2	1109.2
55°	1009.7	1011.3	1013.8	1016.9	1020.7	1022.1	1016.4	1010.8	1016.4	1022.1	1020.7
57.5°	916.9	918.7	921.7	924.9	928.1	929.2	923.7	918.2	923.7	929.2	928.1
60°	854.9	856.4	858.9	862.1	865.8	867.4	862.4	857.4	862.4	867.4	865.8
62.5°	791.8	793.4	795.9	799.2	803.5	805.4	800.4	795.4	800.4	805.4	803.5
65°	697.0	698.8	701.3	704.4	708.1	709.9	705.5	701.1	705.5	709.9	708.1
67.5°	598.3	600.8	604.4	608.0	611.7	613.4	609.7	605.9	609.7	613.4	611.7
70°	535.0	537.3	540.4	543.6	546.7	548.1	544.4	540.6	544.4	548.1	546.7
72.5°	470.8	472.7	475.4	478.5	482.1	484.0	480.8	477.5	480.8	484.0	482.1
75°	374.3	376.8	380.0	382.5	384.3	385.3	383.4	381.5	383.4	385.3	384.3
77.5°	278.0	280.0	282.3	284.7	287.1	288.9	288.9	288.9	288.9	288.9	287.1
80°	219.3	221.0	222.9	224.8	226.7	228.1	228.1	228.1	228.1	228.1	226.7
82.5°	159.1	161.0	163.8	166.2	168.1	169.8	170.8	171.8	170.8	169.8	168.1
85°	78.7	80.7	83.2	85.4	87.3	89.0	90.3	91.5	90.3	89.0	87.3
87.5°	21.0	22.5	24.5	26.1	27.2	27.9	28.2	28.6	28.2	27.8	27.5
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: P1427717

CATALOG NUMBER: SQ2W-F-K-050U-125D-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: P1427717

CATALOG NUMBER: SQ2W-F-K-050U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1	1999.1
2.5°	1995.5	1992.2	1994.2	1996.0	1997.0	1998.0	1997.0	1996.0	1994.2	1992.2	1995.5
5°	1990.0	1985.7	1986.9	1989.4	1995.7	2001.9	1995.7	1989.4	1986.9	1985.7	1990.0
7.5°	1974.9	1970.9	1972.4	1975.1	1981.6	1988.1	1981.6	1975.1	1972.4	1970.9	1974.9
10°	1960.5	1956.7	1959.2	1962.4	1967.4	1972.4	1967.4	1962.4	1959.2	1956.7	1960.5
12.5°	1945.3	1941.6	1943.1	1945.6	1951.1	1956.6	1951.1	1945.6	1943.1	1941.6	1945.3
15°	1914.8	1911.4	1913.2	1915.9	1920.9	1925.9	1920.9	1915.9	1913.2	1911.4	1914.8
17.5°	1876.8	1873.8	1875.9	1878.6	1883.0	1887.3	1883.0	1878.6	1875.9	1873.8	1876.8
20°	1849.7	1846.0	1846.6	1848.2	1852.5	1856.9	1852.5	1848.2	1846.6	1846.0	1849.7
22.5°	1819.1	1814.6	1813.2	1813.5	1818.9	1824.3	1818.9	1813.5	1813.2	1814.6	1819.1
25°	1767.4	1763.1	1761.2	1760.9	1765.3	1769.6	1765.3	1760.9	1761.2	1763.1	1767.4
27.5°	1710.0	1706.5	1705.3	1705.1	1708.2	1711.4	1708.2	1705.1	1705.3	1706.5	1710.0
30°	1668.6	1664.8	1663.6	1663.4	1666.6	1669.7	1666.6	1663.4	1663.6	1664.8	1668.6
32.5°	1622.9	1619.2	1618.9	1619.6	1623.3	1626.9	1623.3	1619.6	1618.9	1619.2	1622.9
35°	1553.5	1550.3	1551.0	1552.2	1555.3	1558.5	1555.3	1552.2	1551.0	1550.3	1553.5
37.5°	1483.1	1479.8	1479.7	1480.3	1482.9	1485.5	1482.9	1480.3	1479.7	1479.8	1483.1
40°	1433.8	1430.0	1429.4	1429.7	1432.9	1436.0	1432.9	1429.7	1429.4	1430.0	1433.8
42.5°	1381.5	1378.7	1379.1	1379.8	1381.4	1383.0	1381.4	1379.8	1379.1	1378.7	1381.5
45°	1302.2	1299.4	1299.4	1299.7	1301.0	1302.2	1301.0	1299.7	1299.4	1299.4	1302.2
47.5°	1219.7	1217.1	1216.4	1216.3	1218.3	1220.3	1218.3	1216.3	1216.4	1217.1	1219.7
50°	1162.2	1159.4	1158.2	1157.9	1160.4	1162.9	1160.4	1157.9	1158.2	1159.4	1162.2
52.5°	1104.8	1101.7	1100.0	1099.2	1101.2	1103.2	1101.2	1099.2	1100.0	1101.7	1104.8
55°	1016.9	1013.8	1011.3	1009.7	1011.0	1012.2	1011.0	1009.7	1011.3	1013.8	1016.9
57.5°	924.9	921.7	918.7	916.9	918.7	920.4	918.7	916.9	918.7	921.7	924.9
60°	862.1	858.9	856.4	854.9	856.1	857.4	856.1	854.9	856.4	858.9	862.1
62.5°	799.2	795.9	793.4	791.8	793.0	794.3	793.0	791.8	793.4	795.9	799.2
65°	704.4	701.3	698.8	697.0	697.7	698.3	697.7	697.0	698.8	701.3	704.4
67.5°	608.0	604.4	600.8	598.3	599.3	600.3	599.3	598.3	600.8	604.4	608.0
70°	543.6	540.4	537.3	535.0	535.0	535.0	535.0	535.0	537.3	540.4	543.6
72.5°	478.5	475.4	472.7	470.8	470.8	470.8	470.8	470.8	472.7	475.4	478.5
75°	382.5	380.0	376.8	374.3	373.7	373.1	373.7	374.3	376.8	380.0	382.5
77.5°	284.7	282.3	280.0	278.0	277.2	276.5	277.2	278.0	280.0	282.3	284.7
80°	224.8	222.9	221.0	219.3	218.1	216.8	218.1	219.3	221.0	222.9	224.8
82.5°	166.2	163.8	161.0	159.1	160.4	161.6	160.4	159.1	161.0	163.8	166.2
85°	85.4	83.2	80.7	78.7	78.1	77.4	78.1	78.7	80.7	83.2	85.4
87.5°	26.7	26.0	25.0	24.0	24.1	23.3	24.1	24.0	25.0	26.0	26.7
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	27.5	22.3	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	54.9	49.5	43.1	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	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: P1427717

CATALOG NUMBER: SQ2W-F-K-050U-125D-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: P1427717

CATALOG NUMBER: SQ2W-F-K-050U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1999.1	1999.1	1999.1	1999.1
2.5°	2004.0	2008.0	1998.5	1989.0
5°	2000.0	2004.4	1991.9	1979.4
7.5°	1984.4	1988.4	1975.9	1963.4
10°	1970.5	1974.9	1962.4	1949.8
12.5°	1954.3	1958.0	1945.5	1932.9
15°	1923.6	1927.0	1914.5	1902.0
17.5°	1884.9	1888.0	1876.3	1864.5
20°	1857.9	1861.1	1849.9	1838.6
22.5°	1826.7	1829.6	1818.3	1807.1
25°	1774.3	1776.7	1765.4	1754.1
27.5°	1715.8	1717.7	1708.3	1699.0
30°	1674.8	1677.2	1667.8	1658.4
32.5°	1630.2	1633.4	1624.5	1615.6
35°	1560.3	1563.6	1556.1	1548.6
37.5°	1489.5	1492.8	1487.1	1481.3
40°	1440.7	1444.3	1438.0	1431.8
42.5°	1387.4	1390.6	1385.8	1381.1
45°	1307.9	1311.0	1306.6	1302.2
47.5°	1224.1	1226.5	1223.1	1219.7
50°	1166.6	1168.8	1164.4	1160.0
52.5°	1109.2	1111.2	1106.4	1101.5
55°	1020.7	1022.1	1016.4	1010.8
57.5°	928.1	929.2	923.7	918.2
60°	865.8	867.4	862.4	857.4
62.5°	803.5	805.4	800.4	795.4
65°	708.1	709.9	705.5	701.1
67.5°	611.7	613.4	609.7	605.9
70°	546.7	548.1	544.4	540.6
72.5°	482.1	484.0	480.8	477.5
75°	384.3	385.3	383.4	381.5
77.5°	287.1	288.9	288.9	288.9
80°	226.7	228.1	228.1	228.1
82.5°	168.1	169.8	170.8	171.8
85°	87.3	89.0	90.3	91.5
87.5°	27.5	27.8	28.2	28.6
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: P1427717

CATALOG NUMBER: SQ2W-F-K-050U-125D-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: P1427717
 CATALOG NUMBER: SQ2W-F-K-050U-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	21.77	22.90	22.51	23.66	24.57	21.69	22.81	22.42	23.57	24.48
	3H	23.58	24.60	24.33	25.36	26.31	23.48	24.49	24.23	25.26	26.20
	4H	24.29	25.25	25.06	26.02	26.98	24.18	25.13	24.94	25.91	26.86
	6H	24.74	25.63	25.52	26.41	27.38	24.60	25.48	25.38	26.27	27.24
	8H	24.91	25.75	25.70	26.56	27.53	24.75	25.60	25.54	26.40	27.37
	12H	25.00	25.81	25.80	26.61	27.60	24.83	25.63	25.62	26.43	27.43
4H	2H	22.38	23.34	23.16	24.12	25.07	22.32	23.28	23.09	24.05	25.01
	3H	24.43	25.23	25.21	26.04	27.01	24.34	25.14	25.12	25.95	26.92
	4H	25.25	25.98	26.05	26.80	27.79	25.14	25.87	25.94	26.68	27.68
	6H	25.82	26.46	26.64	27.29	28.30	25.68	26.31	26.50	27.15	28.15
	8H	26.04	26.63	26.86	27.47	28.48	25.88	26.47	26.70	27.31	28.32
	12H	26.17	26.70	27.01	27.56	28.58	25.98	26.52	26.82	27.37	28.39
8H	4H	25.52	26.11	26.34	26.94	27.96	25.42	26.01	26.24	26.85	27.86
	6H	26.22	26.71	27.07	27.59	28.60	26.09	26.58	26.94	27.46	28.47
	8H	26.53	26.97	27.39	27.84	28.87	26.37	26.81	27.23	27.68	28.71
	12H	26.73	27.11	27.59	27.97	29.06	26.53	26.92	27.40	27.78	28.87
12H	4H	25.53	26.06	26.37	26.91	27.94	25.43	25.97	26.27	26.82	27.84
	6H	26.27	26.71	27.13	27.58	28.61	26.15	26.59	27.01	27.46	28.49
	8H	26.62	27.01	27.48	27.87	28.96	26.47	26.85	27.33	27.72	28.80