

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: P1427719

Luminaire Tested: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427719  
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-L840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

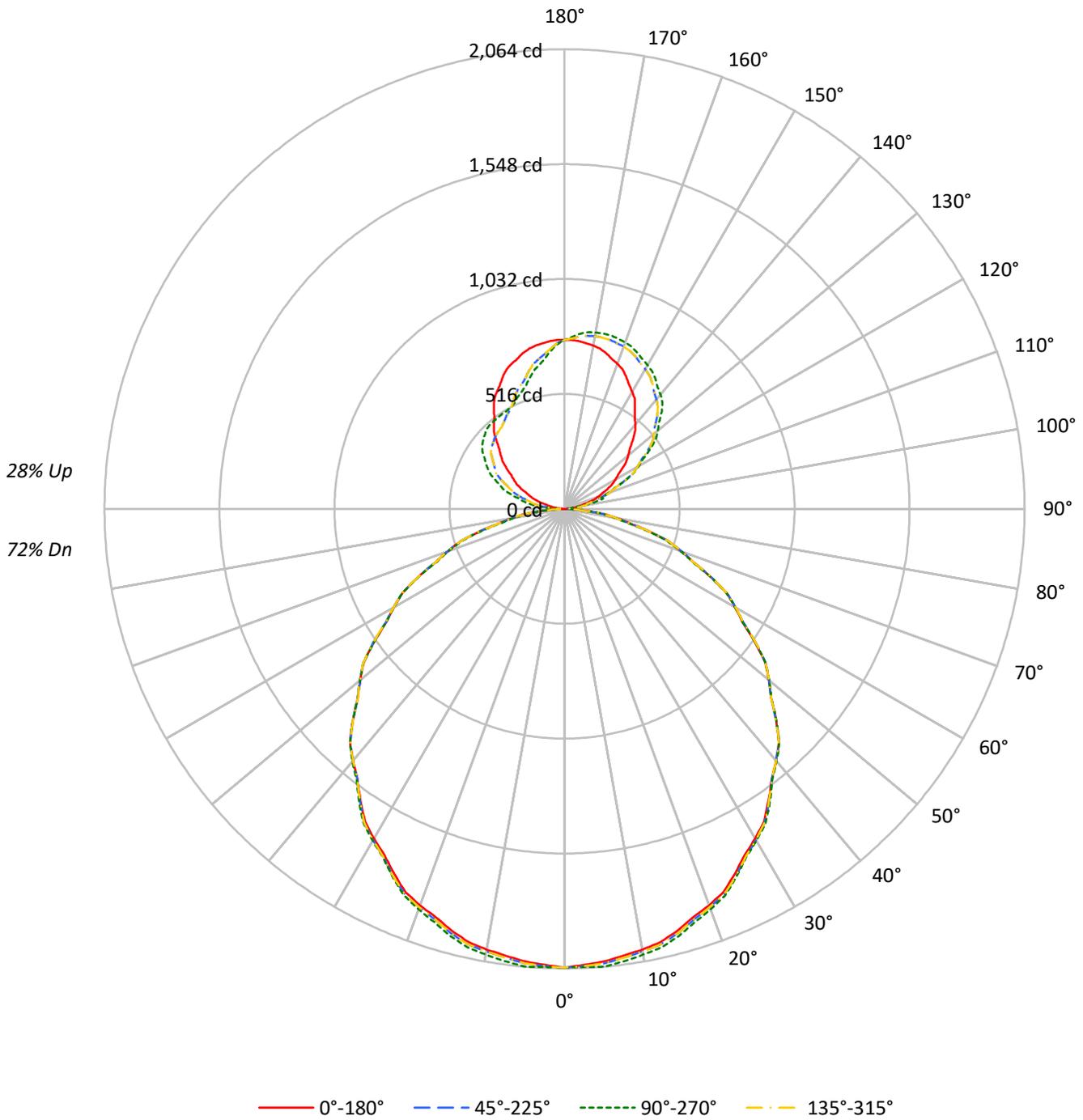
Lumens per Lamp: N/A  
Luminaire Lumens: 8017.4 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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

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CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-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	60	60	60	50	50	50	42	42	42	36	36	36	
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	64	60	60	60	50	50	50	42	42	42	36	36	36	31	31	31	
2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	54	50	50	50	42	42	42	36	36	36	31	31	31	27	27	27	
3	85	75	67	61	80	71	64	59	64	59	54	58	54	50	52	49	46	46	42	42	42	36	36	36	31	31	31	27	27	27	24	24	24	
4	78	66	58	51	73	63	55	50	57	51	46	52	47	42	46	42	39	39	35	35	35	30	30	30	27	27	27	24	24	24	21	21	21	
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	34	31	31	31	27	27	27	24	24	24	21	21	21	19	19	19	
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	30	27	27	27	24	24	24	21	21	21	19	19	19	17	17	17	
7	61	48	40	34	57	46	38	33	42	35	30	38	33	28	35	30	26	26	24	24	24	21	21	21	19	19	19	17	17	17	15	15	15	
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	24	21	21	21	19	19	19	17	17	17	15	15	15	13	13	13	
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	21	19	19	19	17	17	17	15	15	15	13	13	13	11	11	11	
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	19	17	17	17	15	15	15	13	13	13	11	11	11	9	9	9	

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

	0°	90°	180°	270°
0°	33270	33270	33270	33270
5°	33068	33444	33068	33444
10°	32950	33330	32950	33330
15°	32768	33181	32768	33181
20°	32561	32886	32561	32886
25°	32211	32494	32211	32494
30°	31869	32085	31869	32085
35°	31461	31662	31461	31662
40°	31105	31195	31105	31195
45°	30649	30649	30649	30649
50°	30034	30106	30034	30106
55°	29328	29368	29328	29368
60°	28536	28536	28536	28536
65°	27606	27495	27606	27495
70°	26303	26030	26303	26030
75°	24528	23986	24528	23986
80°	21859	20781	21859	20781
85°	17469	14783	17469	14783

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 30855 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	2.4
10°-20°	557.1	6.9
20°-30°	838.6	10.5
30°-40°	1002.8	12.5
40°-50°	1035.5	12.9
50°-60°	934.0	11.6
60°-70°	715.5	8.9
70°-80°	413.5	5.2
80°-90°	110.5	1.4
90°-100°	60.4	0.8
100°-110°	176.1	2.2
110°-120°	287.3	3.6
120°-130°	364.6	4.5
130°-140°	390.1	4.9
140°-150°	364.3	4.5
150°-160°	299.8	3.7
160°-170°	201.0	2.5
170°-180°	71.4	0.9
0°-30°	1590.6	19.8
0°-40°	2593.4	32.3
0°-60°	4562.9	56.9
0°-90°	5802.4	72.4
90°-120°	523.8	6.5
90°-150°	1642.8	20.5
90°-180°	2215.0	27.6
0°-180°	8017.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2061	2061	2061	2061	2061	
5°	2040	2064	2040	2064	2040	194
15°	1960	1985	1960	1985	1960	553
25°	1808	1824	1808	1824	1808	833
35°	1596	1606	1596	1606	1596	999
45°	1342	1342	1342	1342	1342	1034
55°	1042	1043	1042	1043	1042	931
65°	723	720	723	720	723	714
75°	393	384	393	384	393	416
85°	94	80	94	80	94	110
90°	2	17	2	33	2	6
95°	24	18	24	103	24	29
105°	112	179	112	247	112	119
115°	215	297	215	366	215	211
125°	317	471	317	449	317	284
135°	431	617	431	497	431	333
145°	551	711	551	508	551	345
155°	654	772	654	527	654	301
165°	723	805	723	607	723	204
175°	756	788	756	712	756	72
180°	759	759	759	759	759	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2050.1	2059.9	2069.7	2065.6	2056.8	2053.5	2055.5	2057.3	2058.4	2059.4	2058.4
5°	2040.3	2053.2	2066.1	2061.5	2051.2	2046.7	2048.0	2050.6	2057.0	2063.5	2057.0
7.5°	2023.7	2036.6	2049.5	2045.4	2035.6	2031.4	2033.0	2035.8	2042.5	2049.2	2042.5
10°	2009.8	2022.7	2035.6	2031.1	2020.7	2016.9	2019.5	2022.7	2027.8	2033.0	2027.8
12.5°	1992.4	2005.3	2018.2	2014.4	2005.1	2001.3	2002.8	2005.4	2011.1	2016.7	2011.1
15°	1960.4	1973.3	1986.2	1982.7	1973.7	1970.1	1972.1	1974.8	1980.0	1985.1	1980.0
17.5°	1921.8	1934.0	1946.1	1942.8	1934.5	1931.4	1933.5	1936.3	1940.8	1945.4	1940.8
20°	1895.1	1906.8	1918.4	1915.0	1906.6	1902.7	1903.4	1905.0	1909.5	1914.0	1909.5
22.5°	1862.6	1874.2	1885.9	1882.9	1875.0	1870.3	1868.9	1869.2	1874.8	1880.3	1874.8
25°	1808.1	1819.7	1831.3	1828.9	1821.8	1817.3	1815.3	1815.0	1819.5	1824.0	1819.5
27.5°	1751.2	1760.9	1770.5	1768.5	1762.6	1759.0	1757.7	1757.5	1760.7	1764.0	1760.7
30°	1709.4	1719.1	1728.7	1726.3	1719.9	1716.0	1714.7	1714.6	1717.8	1721.0	1717.8
32.5°	1665.3	1674.4	1683.6	1680.3	1672.8	1668.9	1668.7	1669.4	1673.2	1676.9	1673.2
35°	1596.2	1604.0	1611.7	1608.3	1601.2	1598.0	1598.6	1599.9	1603.1	1606.4	1603.1
37.5°	1526.9	1532.8	1538.7	1535.3	1528.7	1525.3	1525.2	1525.8	1528.5	1531.2	1528.5
40°	1475.8	1482.2	1488.7	1485.0	1477.9	1474.0	1473.4	1473.7	1476.9	1480.1	1476.9
42.5°	1423.5	1428.4	1433.3	1430.0	1424.0	1421.1	1421.5	1422.2	1423.9	1425.6	1423.9
45°	1342.3	1346.8	1351.3	1348.1	1342.3	1339.4	1339.4	1339.7	1341.0	1342.3	1341.0
47.5°	1257.2	1260.7	1264.2	1261.7	1257.2	1254.5	1253.8	1253.7	1255.8	1257.8	1255.8
50°	1195.7	1200.2	1204.7	1202.5	1198.0	1195.1	1193.8	1193.5	1196.0	1198.6	1196.0
52.5°	1135.3	1140.4	1145.4	1143.3	1138.8	1135.6	1133.8	1133.0	1135.0	1137.1	1135.0
55°	1041.9	1047.7	1053.5	1052.1	1048.2	1045.0	1042.4	1040.8	1042.1	1043.3	1042.1
57.5°	946.4	952.1	957.8	956.7	953.3	950.1	947.0	945.1	946.9	948.7	946.9
60°	883.7	888.9	894.0	892.4	888.6	885.3	882.8	881.1	882.4	883.7	882.4
62.5°	819.9	825.0	830.2	828.2	823.8	820.3	817.7	816.1	817.4	818.7	817.4
65°	722.6	727.2	731.7	729.9	726.0	722.8	720.2	718.5	719.1	719.7	719.1
67.5°	624.6	628.4	632.3	630.5	626.7	623.0	619.2	616.7	617.7	618.8	617.7
70°	557.2	561.1	565.0	563.5	560.3	557.1	553.8	551.4	551.4	551.4	551.4
72.5°	492.2	495.6	498.9	497.0	493.2	490.0	487.3	485.2	485.2	485.2	485.2
75°	393.2	395.2	397.1	396.2	394.2	391.6	388.4	385.8	385.2	384.5	385.2
77.5°	297.8	297.8	297.8	295.9	293.5	291.0	288.6	286.5	285.8	285.0	285.8
80°	235.1	235.1	235.1	233.6	231.7	229.8	227.8	226.0	224.8	223.5	224.8
82.5°	177.0	176.0	175.0	173.3	171.3	168.9	165.9	164.0	165.3	166.6	165.3
85°	94.3	93.0	91.7	90.0	88.0	85.8	83.2	81.1	80.5	79.8	80.5
87.5°	29.5	29.1	28.8	28.0	26.9	25.3	23.2	21.7	21.3	20.8	21.3
90°	2.3	5.4	9.2	12.3	14.6	15.3	15.3	16.1	16.9	16.9	16.9
92.5°	8.4	13.3	13.5	13.5	16.4	17.8	19.0	19.2	19.9	19.9	19.9
95°	23.8	26.1	39.1	38.3	26.1	20.7	17.6	17.6	17.6	17.6	17.6
97.5°	45.4	48.7	50.9	68.2	72.0	69.6	56.7	47.7	42.6	40.3	42.6
100°	64.4	65.9	70.5	71.3	90.4	108.8	99.6	88.1	84.3	82.0	84.3
102.5°	83.4	84.3	91.3	94.6	99.0	109.4	141.3	137.8	135.2	134.7	135.2
105°	111.9	112.6	125.7	131.8	134.9	134.9	134.1	149.4	173.9	179.3	173.9
107.5°	142.4	145.9	161.2	177.6	181.1	182.1	178.1	175.8	174.9	175.5	174.9
110°	163.2	168.6	187.0	207.7	213.0	214.6	213.0	210.7	209.2	209.2	209.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	183.4	191.3	212.1	235.9	244.9	249.5	246.1	244.4	242.9	244.1	242.9
115°	214.6	226.1	253.6	278.2	296.6	298.8	298.1	298.1	297.3	297.3	297.3
117.5°	243.4	261.8	292.7	321.2	342.5	348.7	351.7	350.8	349.9	351.4	349.9
120°	263.6	285.1	320.3	352.5	373.2	382.4	385.4	383.9	385.4	383.9	385.4
122.5°	285.1	311.4	346.1	379.5	403.8	414.3	417.9	418.2	418.5	417.6	418.5
125°	317.2	349.4	390.0	424.5	449.8	462.1	465.1	465.9	467.4	471.3	467.4
127.5°	349.7	386.2	430.8	464.1	490.0	504.8	509.6	511.3	514.5	516.2	514.5
130°	372.4	413.8	459.0	490.4	515.7	531.8	540.2	542.5	546.4	545.6	546.4
132.5°	396.3	439.5	485.4	518.0	541.5	558.8	566.0	572.6	573.9	575.0	573.9
135°	431.4	478.2	524.1	556.3	578.5	595.4	604.6	610.7	614.6	616.9	614.6
137.5°	468.4	517.7	561.8	590.5	612.9	627.4	637.9	644.3	648.3	650.1	648.3
140°	493.5	541.0	583.9	613.8	633.7	648.3	657.5	665.1	669.7	669.7	669.7
142.5°	517.4	564.3	606.0	635.9	653.3	666.7	676.5	682.3	687.5	687.5	687.5
145°	551.0	597.7	636.0	665.9	680.5	692.7	703.4	708.0	711.1	711.1	711.1
147.5°	586.1	627.4	662.4	691.0	703.3	717.7	726.1	729.8	733.6	732.0	733.6
150°	606.9	645.2	678.9	705.7	718.0	731.8	740.2	743.3	747.1	744.8	747.1
152.5°	627.1	663.6	694.2	719.2	729.7	743.4	753.1	756.2	758.8	757.1	758.8
155°	654.4	686.6	714.9	737.9	747.1	760.1	769.3	773.2	776.2	772.4	776.2
157.5°	678.8	706.5	731.2	752.3	762.1	773.3	781.9	786.7	789.7	788.0	789.7
160°	693.5	718.8	741.0	760.9	770.1	780.1	789.3	794.6	797.7	795.4	797.7
162.5°	705.7	728.6	749.6	767.7	775.6	784.4	795.4	800.1	803.2	800.3	803.2
165°	723.4	741.8	760.1	775.5	782.4	789.3	800.8	806.1	808.4	805.4	808.4
167.5°	736.7	750.8	765.7	778.8	783.9	790.6	802.1	806.6	809.5	805.7	809.5
170°	744.1	756.3	769.3	780.1	783.9	790.0	801.5	805.4	807.7	803.8	807.7
172.5°	750.2	759.4	770.0	779.5	781.5	786.4	797.2	801.1	802.8	799.5	802.8
175°	756.3	761.7	769.3	775.5	774.7	777.8	787.0	790.0	793.1	788.5	793.1
177.5°	759.2	761.7	764.1	767.8	765.4	765.4	772.1	773.9	774.6	772.1	774.6
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2057.3	2055.5	2053.5	2056.8	2065.6	2069.7	2059.9	2050.1	2059.9	2069.7	2065.6
5°	2050.6	2048.0	2046.7	2051.2	2061.5	2066.1	2053.2	2040.3	2053.2	2066.1	2061.5
7.5°	2035.8	2033.0	2031.4	2035.6	2045.4	2049.5	2036.6	2023.7	2036.6	2049.5	2045.4
10°	2022.7	2019.5	2016.9	2020.7	2031.1	2035.6	2022.7	2009.8	2022.7	2035.6	2031.1
12.5°	2005.4	2002.8	2001.3	2005.1	2014.4	2018.2	2005.3	1992.4	2005.3	2018.2	2014.4
15°	1974.8	1972.1	1970.1	1973.7	1982.7	1986.2	1973.3	1960.4	1973.3	1986.2	1982.7
17.5°	1936.3	1933.5	1931.4	1934.5	1942.8	1946.1	1934.0	1921.8	1934.0	1946.1	1942.8
20°	1905.0	1903.4	1902.7	1906.6	1915.0	1918.4	1906.8	1895.1	1906.8	1918.4	1915.0
22.5°	1869.2	1868.9	1870.3	1875.0	1882.9	1885.9	1874.2	1862.6	1874.2	1885.9	1882.9
25°	1815.0	1815.3	1817.3	1821.8	1828.9	1831.3	1819.7	1808.1	1819.7	1831.3	1828.9
27.5°	1757.5	1757.7	1759.0	1762.6	1768.5	1770.5	1760.9	1751.2	1760.9	1770.5	1768.5
30°	1714.6	1714.7	1716.0	1719.9	1726.3	1728.7	1719.1	1709.4	1719.1	1728.7	1726.3
32.5°	1669.4	1668.7	1668.9	1672.8	1680.3	1683.6	1674.4	1665.3	1674.4	1683.6	1680.3
35°	1599.9	1598.6	1598.0	1601.2	1608.3	1611.7	1604.0	1596.2	1604.0	1611.7	1608.3
37.5°	1525.8	1525.2	1525.3	1528.7	1535.3	1538.7	1532.8	1526.9	1532.8	1538.7	1535.3
40°	1473.7	1473.4	1474.0	1477.9	1485.0	1488.7	1482.2	1475.8	1482.2	1488.7	1485.0
42.5°	1422.2	1421.5	1421.1	1424.0	1430.0	1433.3	1428.4	1423.5	1428.4	1433.3	1430.0
45°	1339.7	1339.4	1339.4	1342.3	1348.1	1351.3	1346.8	1342.3	1346.8	1351.3	1348.1
47.5°	1253.7	1253.8	1254.5	1257.2	1261.7	1264.2	1260.7	1257.2	1260.7	1264.2	1261.7
50°	1193.5	1193.8	1195.1	1198.0	1202.5	1204.7	1200.2	1195.7	1200.2	1204.7	1202.5
52.5°	1133.0	1133.8	1135.6	1138.8	1143.3	1145.4	1140.4	1135.3	1140.4	1145.4	1143.3
55°	1040.8	1042.4	1045.0	1048.2	1052.1	1053.5	1047.7	1041.9	1047.7	1053.5	1052.1
57.5°	945.1	947.0	950.1	953.3	956.7	957.8	952.1	946.4	952.1	957.8	956.7
60°	881.1	882.8	885.3	888.6	892.4	894.0	888.9	883.7	888.9	894.0	892.4
62.5°	816.1	817.7	820.3	823.8	828.2	830.2	825.0	819.9	825.0	830.2	828.2
65°	718.5	720.2	722.8	726.0	729.9	731.7	727.2	722.6	727.2	731.7	729.9
67.5°	616.7	619.2	623.0	626.7	630.5	632.3	628.4	624.6	628.4	632.3	630.5
70°	551.4	553.8	557.1	560.3	563.5	565.0	561.1	557.2	561.1	565.0	563.5
72.5°	485.2	487.3	490.0	493.2	497.0	498.9	495.6	492.2	495.6	498.9	497.0
75°	385.8	388.4	391.6	394.2	396.2	397.1	395.2	393.2	395.2	397.1	396.2
77.5°	286.5	288.6	291.0	293.5	295.9	297.8	297.8	297.8	297.8	297.8	295.9
80°	226.0	227.8	229.8	231.7	233.6	235.1	235.1	235.1	235.1	235.1	233.6
82.5°	164.0	165.9	168.9	171.3	173.3	175.0	176.0	177.0	176.0	175.0	173.3
85°	81.1	83.2	85.8	88.0	90.0	91.7	93.0	94.3	93.0	91.7	90.0
87.5°	21.7	23.2	25.3	26.9	28.0	28.8	29.1	29.5	29.1	28.6	28.3
90°	16.1	15.3	15.3	14.6	12.3	9.2	5.4	2.3	5.4	8.4	13.8
92.5°	19.2	19.0	17.8	16.4	13.5	13.5	13.3	8.4	14.6	20.7	29.7
95°	17.6	17.6	20.7	26.1	38.3	39.1	26.1	23.8	33.7	47.5	59.8
97.5°	47.7	56.7	69.6	72.0	68.2	50.9	48.7	45.4	61.8	75.4	95.2
100°	88.1	99.6	108.8	90.4	71.3	70.5	65.9	64.4	82.0	95.0	114.2
102.5°	137.8	141.3	109.4	99.0	94.6	91.3	84.3	83.4	101.0	118.9	135.0
105°	149.4	134.1	134.9	134.9	131.8	125.7	112.6	111.9	131.8	152.5	172.4
107.5°	175.8	178.1	182.1	181.1	177.6	161.2	145.9	142.4	160.3	185.1	207.0
110°	210.7	213.0	214.6	213.0	207.7	187.0	168.6	163.2	179.3	205.4	229.1



TEST NUMBER: P1427719

CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	244.4	246.1	249.5	244.9	235.9	212.1	191.3	183.4	199.5	226.2	250.6
115°	298.1	298.1	298.8	296.6	278.2	253.6	226.1	214.6	228.4	252.9	279.7
117.5°	350.8	351.7	348.7	342.5	321.2	292.7	261.8	243.4	254.3	280.2	307.7
120°	383.9	385.4	382.4	373.2	352.5	320.3	285.1	263.6	272.0	297.3	324.9
122.5°	418.2	417.9	414.3	403.8	379.5	346.1	311.4	285.1	288.6	312.0	339.0
125°	465.9	465.1	462.1	449.8	424.5	390.0	349.4	317.2	312.6	332.6	360.2
127.5°	511.3	509.6	504.8	490.0	464.1	430.8	386.2	349.7	339.5	352.0	377.3
130°	542.5	540.2	531.8	515.7	490.4	459.0	413.8	372.4	357.9	365.5	387.7
132.5°	572.6	566.0	558.8	541.5	518.0	485.4	439.5	396.3	376.2	379.6	396.9
135°	610.7	604.6	595.4	578.5	556.3	524.1	478.2	431.4	403.8	400.8	410.7
137.5°	644.3	637.9	627.4	612.9	590.5	561.8	517.7	468.4	433.6	423.3	427.1
140°	665.1	657.5	648.3	633.7	613.8	583.9	541.0	493.5	454.4	439.8	437.5
142.5°	682.3	676.5	666.7	653.3	635.9	606.0	564.3	517.4	475.9	457.0	451.6
145°	708.0	703.4	692.7	680.5	665.9	636.0	597.7	551.0	509.6	485.1	473.6
147.5°	729.8	726.1	717.7	703.3	691.0	662.4	627.4	586.1	543.6	513.3	498.4
150°	743.3	740.2	731.8	718.0	705.7	678.9	645.2	606.9	566.3	534.1	514.9
152.5°	756.2	753.1	743.4	729.7	719.2	694.2	663.6	627.1	585.9	553.7	533.9
155°	773.2	769.3	760.1	747.1	737.9	714.9	686.6	654.4	619.2	585.4	563.2
157.5°	786.7	781.9	773.3	762.1	752.3	731.2	706.5	678.8	648.0	615.8	593.1
160°	794.6	789.3	780.1	770.1	760.9	741.0	718.8	693.5	665.1	636.0	611.5
162.5°	800.1	795.4	784.4	775.6	767.7	749.6	728.6	705.7	680.5	655.0	632.3
165°	806.1	800.8	789.3	782.4	775.5	760.1	741.8	723.4	701.9	681.2	662.8
167.5°	806.6	802.1	790.6	783.9	778.8	765.7	750.8	736.7	720.0	703.8	688.4
170°	805.4	801.5	790.0	783.9	780.1	769.3	756.3	744.1	731.0	717.2	705.0
172.5°	801.1	797.2	786.4	781.5	779.5	770.0	759.4	750.2	739.0	728.9	719.1
175°	790.0	787.0	777.8	774.7	775.5	769.3	761.7	756.3	749.4	743.3	737.9
177.5°	773.9	772.1	765.4	765.4	767.8	764.1	761.7	759.2	756.2	754.3	752.5
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427719

CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2056.8	2053.5	2055.5	2057.3	2058.4	2059.4	2058.4	2057.3	2055.5	2053.5	2056.8
5°	2051.2	2046.7	2048.0	2050.6	2057.0	2063.5	2057.0	2050.6	2048.0	2046.7	2051.2
7.5°	2035.6	2031.4	2033.0	2035.8	2042.5	2049.2	2042.5	2035.8	2033.0	2031.4	2035.6
10°	2020.7	2016.9	2019.5	2022.7	2027.8	2033.0	2027.8	2022.7	2019.5	2016.9	2020.7
12.5°	2005.1	2001.3	2002.8	2005.4	2011.1	2016.7	2011.1	2005.4	2002.8	2001.3	2005.1
15°	1973.7	1970.1	1972.1	1974.8	1980.0	1985.1	1980.0	1974.8	1972.1	1970.1	1973.7
17.5°	1934.5	1931.4	1933.5	1936.3	1940.8	1945.4	1940.8	1936.3	1933.5	1931.4	1934.5
20°	1906.6	1902.7	1903.4	1905.0	1909.5	1914.0	1909.5	1905.0	1903.4	1902.7	1906.6
22.5°	1875.0	1870.3	1868.9	1869.2	1874.8	1880.3	1874.8	1869.2	1868.9	1870.3	1875.0
25°	1821.8	1817.3	1815.3	1815.0	1819.5	1824.0	1819.5	1815.0	1815.3	1817.3	1821.8
27.5°	1762.6	1759.0	1757.7	1757.5	1760.7	1764.0	1760.7	1757.5	1757.7	1759.0	1762.6
30°	1719.9	1716.0	1714.7	1714.6	1717.8	1721.0	1717.8	1714.6	1714.7	1716.0	1719.9
32.5°	1672.8	1668.9	1668.7	1669.4	1673.2	1676.9	1673.2	1669.4	1668.7	1668.9	1672.8
35°	1601.2	1598.0	1598.6	1599.9	1603.1	1606.4	1603.1	1599.9	1598.6	1598.0	1601.2
37.5°	1528.7	1525.3	1525.2	1525.8	1528.5	1531.2	1528.5	1525.8	1525.2	1525.3	1528.7
40°	1477.9	1474.0	1473.4	1473.7	1476.9	1480.1	1476.9	1473.7	1473.4	1474.0	1477.9
42.5°	1424.0	1421.1	1421.5	1422.2	1423.9	1425.6	1423.9	1422.2	1421.5	1421.1	1424.0
45°	1342.3	1339.4	1339.4	1339.7	1341.0	1342.3	1341.0	1339.7	1339.4	1339.4	1342.3
47.5°	1257.2	1254.5	1253.8	1253.7	1255.8	1257.8	1255.8	1253.7	1253.8	1254.5	1257.2
50°	1198.0	1195.1	1193.8	1193.5	1196.0	1198.6	1196.0	1193.5	1193.8	1195.1	1198.0
52.5°	1138.8	1135.6	1133.8	1133.0	1135.0	1137.1	1135.0	1133.0	1133.8	1135.6	1138.8
55°	1048.2	1045.0	1042.4	1040.8	1042.1	1043.3	1042.1	1040.8	1042.4	1045.0	1048.2
57.5°	953.3	950.1	947.0	945.1	946.9	948.7	946.9	945.1	947.0	950.1	953.3
60°	888.6	885.3	882.8	881.1	882.4	883.7	882.4	881.1	882.8	885.3	888.6
62.5°	823.8	820.3	817.7	816.1	817.4	818.7	817.4	816.1	817.7	820.3	823.8
65°	726.0	722.8	720.2	718.5	719.1	719.7	719.1	718.5	720.2	722.8	726.0
67.5°	626.7	623.0	619.2	616.7	617.7	618.8	617.7	616.7	619.2	623.0	626.7
70°	560.3	557.1	553.8	551.4	551.4	551.4	551.4	551.4	553.8	557.1	560.3
72.5°	493.2	490.0	487.3	485.2	485.2	485.2	485.2	485.2	487.3	490.0	493.2
75°	394.2	391.6	388.4	385.8	385.2	384.5	385.2	385.8	388.4	391.6	394.2
77.5°	293.5	291.0	288.6	286.5	285.8	285.0	285.8	286.5	288.6	291.0	293.5
80°	231.7	229.8	227.8	226.0	224.8	223.5	224.8	226.0	227.8	229.8	231.7
82.5°	171.3	168.9	165.9	164.0	165.3	166.6	165.3	164.0	165.9	168.9	171.3
85°	88.0	85.8	83.2	81.1	80.5	79.8	80.5	81.1	83.2	85.8	88.0
87.5°	27.5	26.8	25.8	24.7	24.8	24.0	24.8	24.7	25.8	26.8	27.5
90°	17.6	23.0	28.4	31.4	34.5	33.0	34.5	31.4	28.4	23.0	17.6
92.5°	35.4	44.4	51.0	56.6	59.0	58.7	59.0	56.6	51.0	44.4	35.4
95°	71.3	82.0	92.7	100.4	105.0	103.4	105.0	100.4	92.7	82.0	71.3
97.5°	109.9	124.3	136.2	143.4	148.0	151.1	148.0	143.4	136.2	124.3	109.9
100°	135.6	149.4	163.2	171.6	179.3	182.4	179.3	171.6	163.2	149.4	135.6
102.5°	156.5	174.6	189.6	198.6	205.1	208.1	205.1	198.6	189.6	174.6	156.5
105°	190.8	210.0	226.1	237.5	244.4	246.7	244.4	237.5	226.1	210.0	190.8
107.5°	225.1	244.9	259.8	272.5	280.9	285.8	280.9	272.5	259.8	244.9	225.1
110°	252.1	268.2	284.3	295.8	304.2	307.3	304.2	295.8	284.3	268.2	252.1



TEST NUMBER: P1427719

CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	274.8	292.7	308.8	320.3	330.0	334.3	330.0	320.3	308.8	292.7	274.8
115°	306.5	330.3	344.8	355.6	362.5	366.3	362.5	355.6	344.8	330.3	306.5
117.5°	332.9	357.7	373.6	381.9	385.1	387.9	385.1	381.9	373.6	357.7	332.9
120°	349.4	372.4	390.8	401.5	405.4	406.9	405.4	401.5	390.8	372.4	349.4
122.5°	364.7	386.5	404.3	417.5	423.8	425.3	423.8	417.5	404.3	386.5	364.7
125°	386.2	406.9	425.3	438.3	445.2	449.0	445.2	438.3	425.3	406.9	386.2
127.5°	404.9	427.3	444.1	455.9	462.7	465.7	462.7	455.9	444.1	427.3	404.9
130°	415.3	438.3	455.2	468.2	474.3	477.4	474.3	468.2	455.2	438.3	415.3
132.5°	423.3	447.5	465.0	476.8	483.5	486.6	483.5	476.8	465.0	447.5	423.3
135°	432.9	458.2	476.6	488.1	494.3	497.3	494.3	488.1	476.6	458.2	432.9
137.5°	441.4	464.4	483.5	495.6	501.1	503.1	501.1	495.6	483.5	464.4	441.4
140°	447.5	467.4	486.6	498.1	504.2	505.0	504.2	498.1	486.6	467.4	447.5
142.5°	455.5	471.1	487.8	499.3	505.4	506.8	505.4	499.3	487.8	471.1	455.5
145°	469.7	478.9	490.4	501.1	506.5	508.0	506.5	501.1	490.4	478.9	469.7
147.5°	487.7	490.6	496.5	503.6	508.8	509.9	508.8	503.6	496.5	490.6	487.7
150°	501.1	500.4	502.7	507.3	511.9	511.1	511.9	507.3	502.7	500.4	501.1
152.5°	516.5	512.0	511.9	514.0	516.2	516.0	516.2	514.0	511.9	512.0	516.5
155°	542.5	534.1	529.5	528.0	528.0	527.2	528.0	528.0	529.5	534.1	542.5
157.5°	571.2	559.4	552.5	548.8	547.7	546.1	547.7	548.8	552.5	559.4	571.2
160°	590.8	577.8	570.9	564.7	562.4	560.2	562.4	564.7	570.9	577.8	590.8
162.5°	609.2	596.8	589.3	583.8	581.5	577.9	581.5	583.8	589.3	596.8	609.2
165°	639.1	626.1	617.6	613.0	610.0	606.9	610.0	613.0	617.6	626.1	639.1
167.5°	669.0	654.7	649.2	644.0	641.1	635.6	641.1	644.0	649.2	654.7	669.0
170°	687.4	674.3	671.3	666.7	661.3	655.2	661.3	666.7	671.3	674.3	687.4
172.5°	703.3	694.6	691.5	686.9	685.2	680.3	685.2	686.9	691.5	694.6	703.3
175°	726.4	719.5	719.5	718.8	716.5	711.9	716.5	718.8	719.5	719.5	726.4
177.5°	745.7	742.1	744.5	744.5	743.9	739.6	743.9	744.5	744.5	742.1	745.7
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427719

CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2060.6	2060.6	2060.6	2060.6
2.5°	2065.6	2069.7	2059.9	2050.1
5°	2061.5	2066.1	2053.2	2040.3
7.5°	2045.4	2049.5	2036.6	2023.7
10°	2031.1	2035.6	2022.7	2009.8
12.5°	2014.4	2018.2	2005.3	1992.4
15°	1982.7	1986.2	1973.3	1960.4
17.5°	1942.8	1946.1	1934.0	1921.8
20°	1915.0	1918.4	1906.8	1895.1
22.5°	1882.9	1885.9	1874.2	1862.6
25°	1828.9	1831.3	1819.7	1808.1
27.5°	1768.5	1770.5	1760.9	1751.2
30°	1726.3	1728.7	1719.1	1709.4
32.5°	1680.3	1683.6	1674.4	1665.3
35°	1608.3	1611.7	1604.0	1596.2
37.5°	1535.3	1538.7	1532.8	1526.9
40°	1485.0	1488.7	1482.2	1475.8
42.5°	1430.0	1433.3	1428.4	1423.5
45°	1348.1	1351.3	1346.8	1342.3
47.5°	1261.7	1264.2	1260.7	1257.2
50°	1202.5	1204.7	1200.2	1195.7
52.5°	1143.3	1145.4	1140.4	1135.3
55°	1052.1	1053.5	1047.7	1041.9
57.5°	956.7	957.8	952.1	946.4
60°	892.4	894.0	888.9	883.7
62.5°	828.2	830.2	825.0	819.9
65°	729.9	731.7	727.2	722.6
67.5°	630.5	632.3	628.4	624.6
70°	563.5	565.0	561.1	557.2
72.5°	497.0	498.9	495.6	492.2
75°	396.2	397.1	395.2	393.2
77.5°	295.9	297.8	297.8	297.8
80°	233.6	235.1	235.1	235.1
82.5°	173.3	175.0	176.0	177.0
85°	90.0	91.7	93.0	94.3
87.5°	28.3	28.6	29.1	29.5
90°	13.8	8.4	5.4	2.3
92.5°	29.7	20.7	14.6	8.4
95°	59.8	47.5	33.7	23.8
97.5°	95.2	75.4	61.8	45.4
100°	114.2	95.0	82.0	64.4
102.5°	135.0	118.9	101.0	83.4
105°	172.4	152.5	131.8	111.9
107.5°	207.0	185.1	160.3	142.4
110°	229.1	205.4	179.3	163.2

TEST NUMBER: P1427719

CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	250.6	226.2	199.5	183.4
115°	279.7	252.9	228.4	214.6
117.5°	307.7	280.2	254.3	243.4
120°	324.9	297.3	272.0	263.6
122.5°	339.0	312.0	288.6	285.1
125°	360.2	332.6	312.6	317.2
127.5°	377.3	352.0	339.5	349.7
130°	387.7	365.5	357.9	372.4
132.5°	396.9	379.6	376.2	396.3
135°	410.7	400.8	403.8	431.4
137.5°	427.1	423.3	433.6	468.4
140°	437.5	439.8	454.4	493.5
142.5°	451.6	457.0	475.9	517.4
145°	473.6	485.1	509.6	551.0
147.5°	498.4	513.3	543.6	586.1
150°	514.9	534.1	566.3	606.9
152.5°	533.9	553.7	585.9	627.1
155°	563.2	585.4	619.2	654.4
157.5°	593.1	615.8	648.0	678.8
160°	611.5	636.0	665.1	693.5
162.5°	632.3	655.0	680.5	705.7
165°	662.8	681.2	701.9	723.4
167.5°	688.4	703.8	720.0	736.7
170°	705.0	717.2	731.0	744.1
172.5°	719.1	728.9	739.0	750.2
175°	737.9	743.3	749.4	756.3
177.5°	752.5	754.3	756.2	759.2
180°	758.6	758.6	758.6	758.6



TEST NUMBER: P1427719  
 CATALOG NUMBER: SQ2W-F-K-050U-125D-L840-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	21.88	23.00	22.61	23.76	24.67	21.79	22.92	22.53	23.68	24.59
	3H	23.69	24.70	24.44	25.47	26.41	23.59	24.60	24.33	25.37	26.31
	4H	24.40	25.35	25.16	26.13	27.08	24.28	25.24	25.05	26.02	26.97
	6H	24.85	25.73	25.63	26.52	27.48	24.71	25.59	25.49	26.38	27.34
	8H	25.01	25.86	25.80	26.66	27.63	24.86	25.70	25.65	26.51	27.48
	12H	25.11	25.91	25.90	26.71	27.71	24.93	25.73	25.73	26.53	27.53
4H	2H	22.49	23.45	23.26	24.22	25.18	22.42	23.38	23.19	24.16	25.11
	3H	24.54	25.34	25.32	26.15	27.12	24.44	25.24	25.23	26.06	27.03
	4H	25.36	26.09	26.16	26.90	27.90	25.25	25.98	26.05	26.79	27.79
	6H	25.93	26.56	26.74	27.40	28.40	25.79	26.42	26.60	27.26	28.26
	8H	26.15	26.74	26.97	27.57	28.59	25.99	26.58	26.81	27.41	28.43
	12H	26.28	26.81	27.12	27.66	28.68	26.09	26.62	26.93	27.48	28.50
8H	4H	25.63	26.22	26.45	27.05	28.07	25.53	26.12	26.35	26.95	27.97
	6H	26.33	26.82	27.17	27.69	28.71	26.20	26.69	27.04	27.56	28.58
	8H	26.63	27.07	27.49	27.94	28.97	26.48	26.91	27.34	27.78	28.82
	12H	26.83	27.21	27.69	28.08	29.16	26.64	27.02	27.50	27.88	28.97
12H	4H	25.63	26.17	26.47	27.02	28.04	25.54	26.07	26.38	26.93	27.95
	6H	26.38	26.82	27.24	27.69	28.72	26.25	26.69	27.11	27.56	28.59
	8H	26.73	27.11	27.59	27.97	29.06	26.58	26.96	27.44	27.82	28.91