

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: P1435980

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435980  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-100U-050D-L835-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

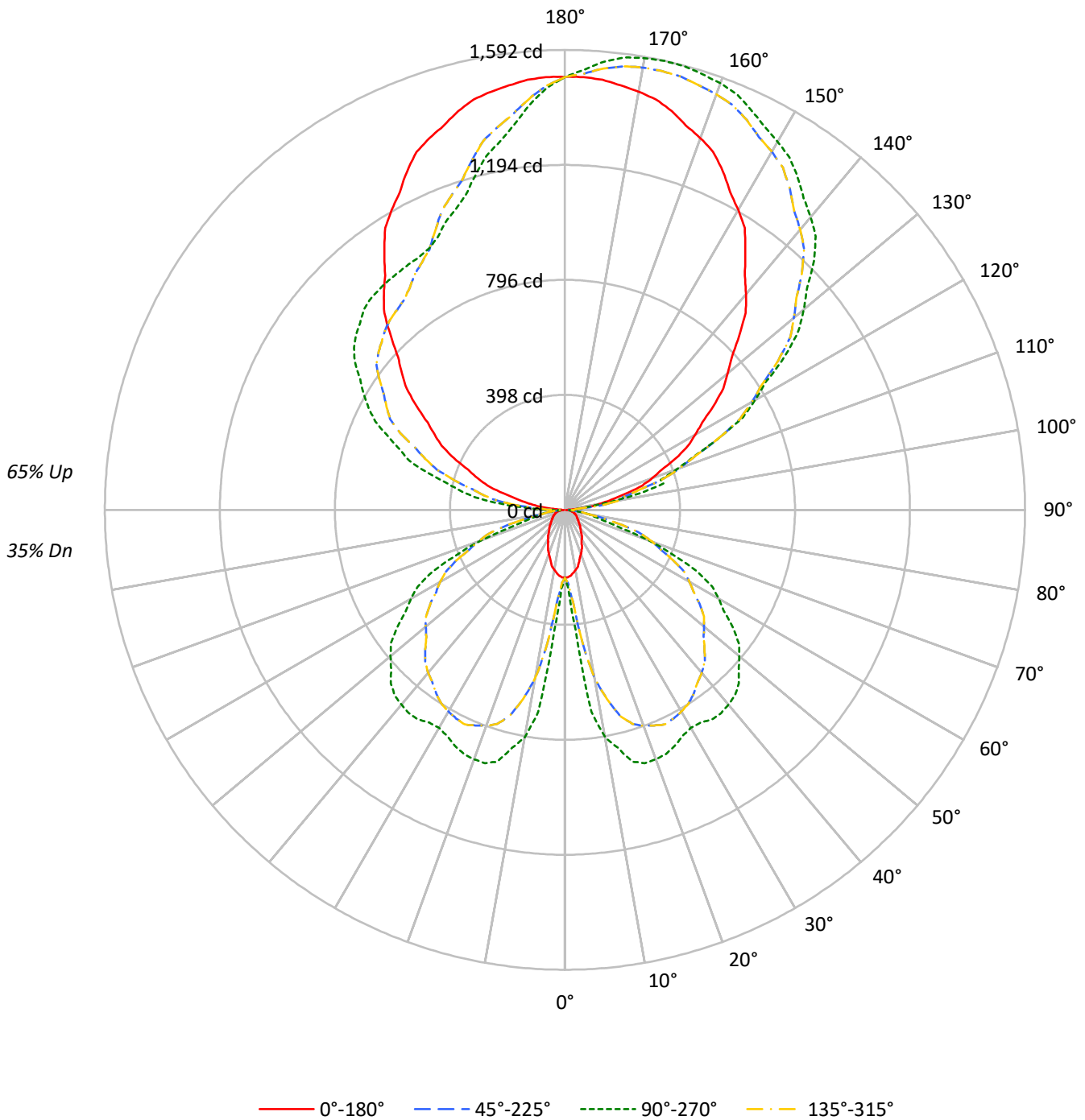
Lumens per Lamp: N/A  
Luminaire Lumens: 6706.4 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.9  
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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### 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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	81	78	75	65	63	61	51	49	48	37	36	35	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	39	32	31	29	24
3	78	68	61	55	70	62	56	51	50	45	42	39	36	33	28	26	24	20
4	71	60	52	46	64	55	48	43	44	39	35	34	31	28	25	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18	14
6	59	47	39	34	53	43	36	31	35	30	26	27	23	20	20	17	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13	11
8	51	38	31	25	46	35	28	23	28	23	20	22	18	16	16	14	12	9
9	47	35	27	22	42	32	25	21	26	21	17	20	17	14	15	12	11	8
10	44	32	25	20	39	29	23	18	24	19	15	19	15	12	14	11	9	7

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

	0°	90°	180°	270°
0°	3801	3801	3801	3801
5°	3705	6731	3705	6731
10°	3469	13099	3469	13099
15°	3141	15075	3141	15075
20°	2780	15788	2780	15788
25°	2460	16047	2460	16047
30°	2174	16246	2174	16246
35°	1941	17465	1941	17465
40°	1764	18556	1764	18556
45°	1628	19431	1628	19431
50°	1535	19783	1535	19783
55°	1498	19941	1498	19941
60°	1534	19843	1534	19843
65°	1601	19281	1601	19281
70°	1657	14582	1657	14582
75°	1834	8047	1834	8047
80°	1897	7466	1897	7466
85°	1890	3149	1890	3149

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 20122 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	0.6
10°-20°	179.9	2.7
20°-30°	316.6	4.7
30°-40°	409.9	6.1
40°-50°	452.0	6.7
50°-60°	421.9	6.3
60°-70°	326.0	4.9
70°-80°	150.3	2.2
80°-90°	34.9	0.5
90°-100°	119.3	1.8
100°-110°	347.8	5.2
110°-120°	567.6	8.5
120°-130°	720.2	10.7
130°-140°	770.6	11.5
140°-150°	719.6	10.7
150°-160°	592.1	8.8
160°-170°	397.1	5.9
170°-180°	141.0	2.1
0°-30°	536.0	8.0
0°-40°	945.9	14.1
0°-60°	1819.9	27.1
0°-90°	2331.0	34.8
90°-120°	1034.6	15.4
90°-150°	3245.1	48.4
90°-180°	4375.0	65.2
0°-180°	6706.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	235	235	235	235	235	
5°	229	415	229	415	229	21
15°	188	902	188	902	188	52
25°	138	901	138	901	138	63
35°	98	886	98	886	98	62
45°	71	851	71	851	71	55
55°	53	708	53	708	53	48
65°	42	505	42	505	42	41
75°	29	129	29	129	29	30
85°	10	17	10	17	10	11
90°	4	33	4	65	4	4
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	424	587	424	724	424	418
125°	627	931	627	887	627	561
135°	852	1218	852	982	852	659
145°	1088	1405	1088	1004	1088	681
155°	1293	1526	1293	1041	1293	594
165°	1429	1591	1429	1199	1429	402
175°	1494	1558	1494	1406	1494	142
180°	1498	1498	1498	1498	1498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	233.6	238.0	242.4	247.2	252.0	257.2	262.8	267.7	270.1	272.5	270.1
5°	228.6	243.7	258.8	280.7	304.8	332.2	362.9	389.2	402.2	415.3	402.2
7.5°	219.8	250.5	281.1	346.1	422.6	502.0	584.2	652.5	678.7	704.8	678.7
10°	211.6	254.4	297.1	407.4	540.2	642.3	713.7	770.8	784.9	799.0	784.9
12.5°	202.6	260.6	318.7	454.8	616.9	723.1	773.2	814.4	828.8	843.3	828.8
15°	187.9	270.8	353.8	507.7	685.3	794.4	835.2	869.8	885.8	901.9	885.8
17.5°	172.7	283.1	393.6	550.6	723.1	829.5	869.9	902.3	911.1	919.8	911.1
20°	161.8	291.6	421.4	578.7	745.1	845.7	880.4	907.9	913.4	918.9	913.4
22.5°	151.9	296.9	442.0	599.5	761.1	855.1	881.3	902.5	908.5	914.4	908.5
25°	138.1	301.5	465.0	622.0	777.0	862.7	879.3	892.8	896.8	900.8	896.8
27.5°	124.7	297.4	470.1	625.2	774.4	854.4	865.3	874.4	878.3	882.3	878.3
30°	116.6	292.1	467.6	621.3	767.7	844.9	852.9	860.3	865.9	871.4	865.9
32.5°	109.3	285.7	462.0	613.7	757.3	832.9	840.5	849.3	861.2	873.2	861.2
35°	98.5	272.0	445.5	595.6	738.0	815.2	827.3	841.8	864.0	886.1	864.0
37.5°	89.2	254.5	419.7	568.3	711.4	795.5	820.8	845.0	866.4	887.7	866.4
40°	83.7	242.2	400.6	548.1	692.0	780.7	814.4	844.2	862.3	880.4	862.3
42.5°	78.3	228.3	378.3	524.6	669.6	761.8	801.1	835.2	853.3	871.4	853.3
45°	71.3	206.1	340.9	485.9	634.2	731.6	777.8	816.8	833.9	851.0	833.9
47.5°	64.7	181.8	298.9	444.5	599.6	701.7	750.8	790.8	803.2	815.7	803.2
50°	61.1	165.7	270.3	416.5	576.4	680.5	728.8	767.5	777.6	787.6	777.6
52.5°	57.5	150.0	242.6	389.0	553.4	658.3	703.7	740.2	749.4	758.7	749.4
55°	53.2	128.6	204.1	348.9	516.9	620.8	660.5	692.3	700.4	708.4	700.4
57.5°	49.3	110.2	171.1	311.4	478.1	578.5	612.4	639.4	646.0	652.5	646.0
60°	47.5	100.3	153.2	287.8	449.8	546.1	576.8	601.4	608.0	614.5	608.0
62.5°	44.8	90.8	136.8	264.3	419.0	510.5	538.8	561.5	567.6	573.8	567.6
65°	41.9	79.1	116.3	231.2	372.1	454.3	477.9	496.7	500.7	504.7	500.7
67.5°	37.8	69.4	101.0	201.0	323.8	392.6	407.3	416.4	408.8	401.3	408.8
70°	35.1	64.3	93.4	182.6	291.7	348.8	353.8	352.2	330.6	308.9	330.6
72.5°	33.3	59.2	85.2	162.4	256.6	298.2	287.1	268.6	227.7	186.7	227.7
75°	29.4	50.5	71.7	129.8	200.2	211.2	163.0	127.0	128.0	129.0	128.0
77.5°	24.0	39.8	55.6	91.3	133.6	142.0	116.5	97.6	98.5	99.4	98.5
80°	20.4	32.9	45.5	59.6	74.2	81.0	80.0	79.3	79.8	80.3	79.8
82.5°	16.7	26.1	35.5	43.9	52.1	56.6	57.6	58.2	57.5	56.8	57.5
85°	10.2	15.7	21.3	24.5	27.0	26.3	22.3	19.0	18.0	17.0	18.0
87.5°	4.5	7.8	11.3	11.8	11.1	10.6	10.6	10.9	11.2	11.2	11.2
90°	4.5	10.6	18.2	24.2	28.8	30.3	30.3	31.8	33.3	33.3	33.3
92.5°	16.7	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.4	39.4	39.4
95°	46.9	51.5	77.2	75.7	51.5	40.9	34.8	34.8	34.8	34.8	34.8
97.5°	89.6	96.3	100.5	134.7	142.3	137.4	112.0	94.1	84.2	79.6	84.2
100°	127.1	130.2	139.3	140.8	178.6	214.9	196.8	174.1	166.5	162.0	166.5
102.5°	164.7	166.5	180.4	186.8	195.6	216.1	279.1	272.2	267.0	266.1	267.0
105°	221.0	222.5	248.2	260.3	266.4	266.4	264.9	295.2	343.6	354.2	343.6
107.5°	281.2	288.2	318.5	350.9	357.8	359.6	351.8	347.2	345.4	346.6	345.4
110°	322.4	333.0	369.3	410.2	420.8	423.8	420.8	416.3	413.2	413.2	413.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.4	377.8	419.0	465.9	483.8	492.8	486.2	482.9	479.8	482.2	479.8
115°	423.8	446.5	501.0	549.5	585.8	590.3	588.8	588.8	587.3	587.3	587.3
117.5°	480.7	517.1	578.2	634.5	676.6	688.7	694.8	692.9	691.1	694.2	691.1
120°	520.7	563.1	632.7	696.3	737.1	755.3	761.4	758.3	761.4	758.3	761.4
122.5°	563.1	615.1	683.6	749.6	797.7	818.3	825.5	826.2	826.8	824.9	826.8
125°	626.7	690.2	770.4	838.6	888.5	912.7	918.8	920.3	923.3	930.9	923.3
127.5°	690.8	762.9	851.0	916.7	967.8	997.2	1006.6	1009.9	1016.3	1019.6	1016.3
130°	735.6	817.4	906.7	968.7	1018.7	1050.5	1067.1	1071.7	1079.2	1077.7	1079.2
132.5°	782.9	868.2	958.7	1023.2	1069.5	1103.8	1118.0	1131.0	1133.7	1135.8	1133.7
135°	852.2	944.5	1035.3	1098.9	1142.8	1176.1	1194.3	1206.4	1213.9	1218.5	1213.9
137.5°	925.1	1022.6	1109.8	1166.4	1210.6	1239.4	1260.0	1272.7	1280.5	1284.2	1280.5
140°	974.8	1068.6	1153.4	1212.4	1251.8	1280.5	1298.7	1313.8	1322.9	1322.9	1322.9
142.5°	1022.0	1114.7	1197.0	1256.0	1290.5	1316.9	1336.3	1347.8	1358.0	1358.0	1358.0
145°	1088.3	1180.6	1256.3	1315.4	1344.1	1368.3	1389.5	1398.6	1404.7	1404.7	1404.7
147.5°	1157.6	1239.4	1308.4	1365.0	1389.2	1417.7	1434.3	1441.6	1449.2	1445.8	1449.2
150°	1198.8	1274.5	1341.1	1394.1	1418.3	1445.5	1462.2	1468.2	1475.8	1471.3	1475.8
152.5°	1238.8	1310.8	1371.4	1420.7	1441.3	1468.5	1487.6	1493.7	1498.8	1495.5	1498.8
155°	1292.7	1356.2	1412.2	1457.6	1475.8	1501.5	1519.7	1527.3	1533.3	1525.8	1533.3
157.5°	1340.8	1395.6	1444.3	1486.1	1505.5	1527.6	1544.5	1553.9	1560.0	1556.6	1560.0
160°	1369.9	1419.8	1463.7	1503.1	1521.2	1540.9	1559.1	1569.7	1575.7	1571.2	1575.7
162.5°	1394.1	1439.2	1480.7	1516.4	1532.1	1549.4	1571.2	1580.6	1586.6	1580.9	1586.6
165°	1428.9	1465.2	1501.5	1531.8	1545.4	1559.1	1581.8	1592.4	1596.9	1590.8	1596.9
167.5°	1455.2	1483.1	1512.4	1538.5	1548.5	1561.8	1584.5	1593.3	1599.0	1591.5	1599.0
170°	1469.8	1494.0	1519.7	1540.9	1548.5	1560.6	1583.3	1590.8	1595.4	1587.8	1595.4
172.5°	1481.9	1500.0	1520.9	1539.7	1543.6	1553.3	1574.8	1582.4	1585.7	1579.3	1585.7
175°	1494.0	1504.6	1519.7	1531.8	1530.3	1536.4	1554.5	1560.6	1566.6	1557.5	1566.6
177.5°	1499.7	1504.6	1509.4	1516.7	1511.8	1511.8	1525.2	1528.8	1530.0	1525.2	1530.0
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	267.7	262.8	257.2	252.0	247.2	242.4	238.0	233.6	238.0	242.4	247.2
5°	389.2	362.9	332.2	304.8	280.7	258.8	243.7	228.6	243.7	258.8	280.7
7.5°	652.5	584.2	502.0	422.6	346.1	281.1	250.5	219.8	250.5	281.1	346.1
10°	770.8	713.7	642.3	540.2	407.4	297.1	254.4	211.6	254.4	297.1	407.4
12.5°	814.4	773.2	723.1	616.9	454.8	318.7	260.6	202.6	260.6	318.7	454.8
15°	869.8	835.2	794.4	685.3	507.7	353.8	270.8	187.9	270.8	353.8	507.7
17.5°	902.3	869.9	829.5	723.1	550.6	393.6	283.1	172.7	283.1	393.6	550.6
20°	907.9	880.4	845.7	745.1	578.7	421.4	291.6	161.8	291.6	421.4	578.7
22.5°	902.5	881.3	855.1	761.1	599.5	442.0	296.9	151.9	296.9	442.0	599.5
25°	892.8	879.3	862.7	777.0	622.0	465.0	301.5	138.1	301.5	465.0	622.0
27.5°	874.4	865.3	854.4	774.4	625.2	470.1	297.4	124.7	297.4	470.1	625.2
30°	860.3	852.9	844.9	767.7	621.3	467.6	292.1	116.6	292.1	467.6	621.3
32.5°	849.3	840.5	832.9	757.3	613.7	462.0	285.7	109.3	285.7	462.0	613.7
35°	841.8	827.3	815.2	738.0	595.6	445.5	272.0	98.5	272.0	445.5	595.6
37.5°	845.0	820.8	795.5	711.4	568.3	419.7	254.5	89.2	254.5	419.7	568.3
40°	844.2	814.4	780.7	692.0	548.1	400.6	242.2	83.7	242.2	400.6	548.1
42.5°	835.2	801.1	761.8	669.6	524.6	378.3	228.3	78.3	228.3	378.3	524.6
45°	816.8	777.8	731.6	634.2	485.9	340.9	206.1	71.3	206.1	340.9	485.9
47.5°	790.8	750.8	701.7	599.6	444.5	298.9	181.8	64.7	181.8	298.9	444.5
50°	767.5	728.8	680.5	576.4	416.5	270.3	165.7	61.1	165.7	270.3	416.5
52.5°	740.2	703.7	658.3	553.4	389.0	242.6	150.0	57.5	150.0	242.6	389.0
55°	692.3	660.5	620.8	516.9	348.9	204.1	128.6	53.2	128.6	204.1	348.9
57.5°	639.4	612.4	578.5	478.1	311.4	171.1	110.2	49.3	110.2	171.1	311.4
60°	601.4	576.8	546.1	449.8	287.8	153.2	100.3	47.5	100.3	153.2	287.8
62.5°	561.5	538.8	510.5	419.0	264.3	136.8	90.8	44.8	90.8	136.8	264.3
65°	496.7	477.9	454.3	372.1	231.2	116.3	79.1	41.9	79.1	116.3	231.2
67.5°	416.4	407.3	392.6	323.8	201.0	101.0	69.4	37.8	69.4	101.0	201.0
70°	352.2	353.8	348.8	291.7	182.6	93.4	64.3	35.1	64.3	93.4	182.6
72.5°	268.6	287.1	298.2	256.6	162.4	85.2	59.2	33.3	59.2	85.2	162.4
75°	127.0	163.0	211.2	200.2	129.8	71.7	50.5	29.4	50.5	71.7	129.8
77.5°	97.6	116.5	142.0	133.6	91.3	55.6	39.8	24.0	39.8	55.6	91.3
80°	79.3	80.0	81.0	74.2	59.6	45.5	32.9	20.4	32.9	45.5	59.6
82.5°	58.2	57.6	56.6	52.1	43.9	35.5	26.1	16.7	26.1	35.5	43.9
85°	19.0	22.3	26.3	27.0	24.5	21.3	15.7	10.2	15.7	21.3	24.5
87.5°	10.9	10.6	10.6	11.1	11.8	11.3	7.8	4.5	7.8	11.0	12.4
90°	31.8	30.3	30.3	28.8	24.2	18.2	10.6	4.5	10.6	16.7	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.7	28.8	40.9	58.7
95°	34.8	34.8	40.9	51.5	75.7	77.2	51.5	46.9	66.6	93.8	118.1
97.5°	94.1	112.0	137.4	142.3	134.7	100.5	96.3	89.6	122.0	148.9	188.0
100°	174.1	196.8	214.9	178.6	140.8	139.3	130.2	127.1	162.0	187.7	225.5
102.5°	272.2	279.1	216.1	195.6	186.8	180.4	166.5	164.7	199.5	234.9	266.7
105°	295.2	264.9	266.4	266.4	260.3	248.2	222.5	221.0	260.3	301.2	340.6
107.5°	347.2	351.8	359.6	357.8	350.9	318.5	288.2	281.2	316.7	365.7	409.0
110°	416.3	420.8	423.8	420.8	410.2	369.3	333.0	322.4	354.2	405.7	452.6



TEST NUMBER: P1435980

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.9	486.2	492.8	483.8	465.9	419.0	377.8	362.4	394.2	446.8	495.0
115°	588.8	588.8	590.3	585.8	549.5	501.0	446.5	423.8	451.1	499.5	552.5
117.5°	692.9	694.8	688.7	676.6	634.5	578.2	517.1	480.7	502.2	553.4	607.9
120°	758.3	761.4	755.3	737.1	696.3	632.7	563.1	520.7	537.3	587.3	641.8
122.5°	826.2	825.5	818.3	797.7	749.6	683.6	615.1	563.1	570.0	616.4	669.6
125°	920.3	918.8	912.7	888.5	838.6	770.4	690.2	626.7	617.6	656.9	711.4
127.5°	1009.9	1006.6	997.2	967.8	916.7	851.0	762.9	690.8	670.5	695.4	745.3
130°	1071.7	1067.1	1050.5	1018.7	968.7	906.7	817.4	735.6	706.9	722.0	765.9
132.5°	1131.0	1118.0	1103.8	1069.5	1023.2	958.7	868.2	782.9	743.2	749.9	784.1
135°	1206.4	1194.3	1176.1	1142.8	1098.9	1035.3	944.5	852.2	797.7	791.6	811.3
137.5°	1272.7	1260.0	1239.4	1210.6	1166.4	1109.8	1022.6	925.1	856.4	836.1	843.7
140°	1313.8	1298.7	1280.5	1251.8	1212.4	1153.4	1068.6	974.8	897.6	868.8	864.3
142.5°	1347.8	1336.3	1316.9	1290.5	1256.0	1197.0	1114.7	1022.0	940.0	902.7	892.1
145°	1398.6	1389.5	1368.3	1344.1	1315.4	1256.3	1180.6	1088.3	1006.6	958.1	935.4
147.5°	1441.6	1434.3	1417.7	1389.2	1365.0	1308.4	1239.4	1157.6	1073.8	1013.8	984.5
150°	1468.2	1462.2	1445.5	1418.3	1394.1	1341.1	1274.5	1198.8	1118.6	1055.0	1017.2
152.5°	1493.7	1487.6	1468.5	1441.3	1420.7	1371.4	1310.8	1238.8	1157.3	1093.8	1054.7
155°	1527.3	1519.7	1501.5	1475.8	1457.6	1412.2	1356.2	1292.7	1223.0	1156.4	1112.5
157.5°	1553.9	1544.5	1527.6	1505.5	1486.1	1444.3	1395.6	1340.8	1279.9	1216.4	1171.6
160°	1569.7	1559.1	1540.9	1521.2	1503.1	1463.7	1419.8	1369.9	1313.8	1256.3	1207.9
162.5°	1580.6	1571.2	1549.4	1532.1	1516.4	1480.7	1439.2	1394.1	1344.1	1293.9	1249.1
165°	1592.4	1581.8	1559.1	1545.4	1531.8	1501.5	1465.2	1428.9	1386.5	1345.6	1309.3
167.5°	1593.3	1584.5	1561.8	1548.5	1538.5	1512.4	1483.1	1455.2	1422.2	1390.1	1359.9
170°	1590.8	1583.3	1560.6	1548.5	1540.9	1519.7	1494.0	1469.8	1444.0	1416.8	1392.6
172.5°	1582.4	1574.8	1553.3	1543.6	1539.7	1520.9	1500.0	1481.9	1459.8	1439.8	1420.4
175°	1560.6	1554.5	1536.4	1530.3	1531.8	1519.7	1504.6	1494.0	1480.4	1468.2	1457.6
177.5°	1528.8	1525.2	1511.8	1511.8	1516.7	1509.4	1504.6	1499.7	1493.7	1490.0	1486.4
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1435980

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4	235.4
2.5°	252.0	257.2	262.8	267.7	270.1	272.5	270.1	267.7	262.8	257.2	252.0
5°	304.8	332.2	362.9	389.2	402.2	415.3	402.2	389.2	362.9	332.2	304.8
7.5°	422.6	502.0	584.2	652.5	678.7	704.8	678.7	652.5	584.2	502.0	422.6
10°	540.2	642.3	713.7	770.8	784.9	799.0	784.9	770.8	713.7	642.3	540.2
12.5°	616.9	723.1	773.2	814.4	828.8	843.3	828.8	814.4	773.2	723.1	616.9
15°	685.3	794.4	835.2	869.8	885.8	901.9	885.8	869.8	835.2	794.4	685.3
17.5°	723.1	829.5	869.9	902.3	911.1	919.8	911.1	902.3	869.9	829.5	723.1
20°	745.1	845.7	880.4	907.9	913.4	918.9	913.4	907.9	880.4	845.7	745.1
22.5°	761.1	855.1	881.3	902.5	908.5	914.4	908.5	902.5	881.3	855.1	761.1
25°	777.0	862.7	879.3	892.8	896.8	900.8	896.8	892.8	879.3	862.7	777.0
27.5°	774.4	854.4	865.3	874.4	878.3	882.3	878.3	874.4	865.3	854.4	774.4
30°	767.7	844.9	852.9	860.3	865.9	871.4	865.9	860.3	852.9	844.9	767.7
32.5°	757.3	832.9	840.5	849.3	861.2	873.2	861.2	849.3	840.5	832.9	757.3
35°	738.0	815.2	827.3	841.8	864.0	886.1	864.0	841.8	827.3	815.2	738.0
37.5°	711.4	795.5	820.8	845.0	866.4	887.7	866.4	845.0	820.8	795.5	711.4
40°	692.0	780.7	814.4	844.2	862.3	880.4	862.3	844.2	814.4	780.7	692.0
42.5°	669.6	761.8	801.1	835.2	853.3	871.4	853.3	835.2	801.1	761.8	669.6
45°	634.2	731.6	777.8	816.8	833.9	851.0	833.9	816.8	777.8	731.6	634.2
47.5°	599.6	701.7	750.8	790.8	803.2	815.7	803.2	790.8	750.8	701.7	599.6
50°	576.4	680.5	728.8	767.5	777.6	787.6	777.6	767.5	728.8	680.5	576.4
52.5°	553.4	658.3	703.7	740.2	749.4	758.7	749.4	740.2	703.7	658.3	553.4
55°	516.9	620.8	660.5	692.3	700.4	708.4	700.4	692.3	660.5	620.8	516.9
57.5°	478.1	578.5	612.4	639.4	646.0	652.5	646.0	639.4	612.4	578.5	478.1
60°	449.8	546.1	576.8	601.4	608.0	614.5	608.0	601.4	576.8	546.1	449.8
62.5°	419.0	510.5	538.8	561.5	567.6	573.8	567.6	561.5	538.8	510.5	419.0
65°	372.1	454.3	477.9	496.7	500.7	504.7	500.7	496.7	477.9	454.3	372.1
67.5°	323.8	392.6	407.3	416.4	408.8	401.3	408.8	416.4	407.3	392.6	323.8
70°	291.7	348.8	353.8	352.2	330.6	308.9	330.6	352.2	353.8	348.8	291.7
72.5°	256.6	298.2	287.1	268.6	227.7	186.7	227.7	268.6	287.1	298.2	256.6
75°	200.2	211.2	163.0	127.0	128.0	129.0	128.0	127.0	163.0	211.2	200.2
77.5°	133.6	142.0	116.5	97.6	98.5	99.4	98.5	97.6	116.5	142.0	133.6
80°	74.2	81.0	80.0	79.3	79.8	80.3	79.8	79.3	81.0	80.0	74.2
82.5°	52.1	56.6	57.6	58.2	57.5	56.8	57.5	58.2	56.6	56.6	52.1
85°	27.0	26.3	22.3	19.0	18.0	17.0	18.0	19.0	22.3	26.3	27.0
87.5°	12.3	13.6	15.7	16.9	18.1	17.5	18.1	16.9	15.7	13.6	12.3
90°	34.8	45.4	56.0	62.1	68.1	65.1	68.1	62.1	56.0	45.4	34.8
92.5°	69.9	87.8	100.8	111.7	116.6	115.9	116.6	111.7	100.8	87.8	69.9
95°	140.8	162.0	183.2	198.3	207.4	204.3	207.4	198.3	183.2	162.0	140.8
97.5°	217.1	245.5	269.1	283.4	292.4	298.5	292.4	283.4	269.1	245.5	217.1
100°	267.9	295.2	322.4	339.1	354.2	360.2	354.2	339.1	322.4	295.2	267.9
102.5°	309.1	344.8	374.5	392.3	405.1	411.1	405.1	392.3	374.5	344.8	309.1
105°	376.9	414.7	446.5	469.2	482.9	487.4	482.9	469.2	446.5	414.7	376.9
107.5°	444.7	483.8	513.1	538.3	554.9	564.6	554.9	538.3	513.1	483.8	444.7
110°	498.0	529.8	561.6	584.3	600.9	607.0	600.9	584.3	561.6	529.8	498.0



TEST NUMBER: P1435980

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.8	578.2	610.0	632.7	651.8	660.3	651.8	632.7	610.0	578.2	542.8
115°	605.5	652.4	681.1	702.3	716.0	723.5	716.0	702.3	681.1	652.4	605.5
117.5°	657.5	706.6	738.1	754.4	760.8	766.2	760.8	754.4	738.1	706.6	657.5
120°	690.2	735.6	772.0	793.2	800.7	803.7	800.7	793.2	772.0	735.6	690.2
122.5°	720.5	763.5	798.6	824.6	837.0	840.1	837.0	824.6	798.6	763.5	720.5
125°	762.9	803.7	840.1	865.8	879.4	887.0	879.4	865.8	840.1	803.7	762.9
127.5°	799.8	844.0	877.3	900.6	913.9	920.0	913.9	900.6	877.3	844.0	799.8
130°	820.4	865.8	899.1	924.8	937.0	943.0	937.0	924.8	899.1	865.8	820.4
132.5°	836.1	884.0	918.5	941.8	955.1	961.2	955.1	941.8	918.5	884.0	836.1
135°	855.2	905.2	941.5	964.2	976.3	982.4	976.3	964.2	941.5	905.2	855.2
137.5°	871.9	917.3	955.1	979.0	989.9	993.9	989.9	979.0	955.1	917.3	871.9
140°	884.0	923.3	961.2	983.9	996.0	997.5	996.0	983.9	961.2	923.3	884.0
142.5°	899.7	930.6	963.6	986.3	998.4	1001.1	998.4	986.3	963.6	930.6	899.7
145°	927.9	946.0	968.7	989.9	1000.5	1003.6	1000.5	989.9	968.7	946.0	927.9
147.5°	963.3	969.0	980.8	994.8	1005.1	1007.2	1005.1	994.8	980.8	969.0	963.3
150°	989.9	988.4	993.0	1002.0	1011.1	1009.6	1011.1	1002.0	993.0	988.4	989.9
152.5°	1020.2	1011.4	1011.1	1015.4	1019.6	1019.3	1019.6	1015.4	1011.1	1011.4	1020.2
155°	1071.7	1055.0	1045.9	1042.9	1042.9	1041.4	1042.9	1042.9	1045.9	1055.0	1071.7
157.5°	1128.3	1105.0	1091.3	1084.1	1082.0	1078.6	1082.0	1084.1	1091.3	1105.0	1128.3
160°	1167.0	1141.3	1127.7	1115.6	1111.0	1106.5	1111.0	1115.6	1127.7	1141.3	1167.0
162.5°	1203.4	1178.8	1164.0	1153.1	1148.6	1141.6	1148.6	1153.1	1164.0	1178.8	1203.4
165°	1262.4	1236.7	1220.0	1210.9	1204.9	1198.8	1204.9	1210.9	1220.0	1236.7	1262.4
167.5°	1321.4	1293.3	1282.4	1272.1	1266.3	1255.4	1266.3	1272.1	1282.4	1293.3	1321.4
170°	1357.7	1332.0	1326.0	1316.9	1306.3	1294.2	1306.3	1316.9	1326.0	1332.0	1357.7
172.5°	1389.2	1372.0	1365.9	1356.8	1353.5	1343.8	1353.5	1356.8	1365.9	1372.0	1389.2
175°	1434.9	1421.3	1421.3	1419.8	1415.3	1406.2	1415.3	1419.8	1421.3	1421.3	1434.9
177.5°	1473.1	1465.8	1470.7	1470.7	1469.5	1461.0	1469.5	1470.7	1470.7	1465.8	1473.1
180°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1435980

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	235.4	235.4	235.4	235.4
2.5°	247.2	242.4	238.0	233.6
5°	280.7	258.8	243.7	228.6
7.5°	346.1	281.1	250.5	219.8
10°	407.4	297.1	254.4	211.6
12.5°	454.8	318.7	260.6	202.6
15°	507.7	353.8	270.8	187.9
17.5°	550.6	393.6	283.1	172.7
20°	578.7	421.4	291.6	161.8
22.5°	599.5	442.0	296.9	151.9
25°	622.0	465.0	301.5	138.1
27.5°	625.2	470.1	297.4	124.7
30°	621.3	467.6	292.1	116.6
32.5°	613.7	462.0	285.7	109.3
35°	595.6	445.5	272.0	98.5
37.5°	568.3	419.7	254.5	89.2
40°	548.1	400.6	242.2	83.7
42.5°	524.6	378.3	228.3	78.3
45°	485.9	340.9	206.1	71.3
47.5°	444.5	298.9	181.8	64.7
50°	416.5	270.3	165.7	61.1
52.5°	389.0	242.6	150.0	57.5
55°	348.9	204.1	128.6	53.2
57.5°	311.4	171.1	110.2	49.3
60°	287.8	153.2	100.3	47.5
62.5°	264.3	136.8	90.8	44.8
65°	231.2	116.3	79.1	41.9
67.5°	201.0	101.0	69.4	37.8
70°	182.6	93.4	64.3	35.1
72.5°	162.4	85.2	59.2	33.3
75°	129.8	71.7	50.5	29.4
77.5°	91.3	55.6	39.8	24.0
80°	59.6	45.5	32.9	20.4
82.5°	43.9	35.5	26.1	16.7
85°	24.5	21.3	15.7	10.2
87.5°	12.4	11.0	7.8	4.5
90°	27.2	16.7	10.6	4.5
92.5°	58.7	40.9	28.8	16.7
95°	118.1	93.8	66.6	46.9
97.5°	188.0	148.9	122.0	89.6
100°	225.5	187.7	162.0	127.1
102.5°	266.7	234.9	199.5	164.7
105°	340.6	301.2	260.3	221.0
107.5°	409.0	365.7	316.7	281.2
110°	452.6	405.7	354.2	322.4



TEST NUMBER: P1435980

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	495.0	446.8	394.2	362.4
115°	552.5	499.5	451.1	423.8
117.5°	607.9	553.4	502.2	480.7
120°	641.8	587.3	537.3	520.7
122.5°	669.6	616.4	570.0	563.1
125°	711.4	656.9	617.6	626.7
127.5°	745.3	695.4	670.5	690.8
130°	765.9	722.0	706.9	735.6
132.5°	784.1	749.9	743.2	782.9
135°	811.3	791.6	797.7	852.2
137.5°	843.7	836.1	856.4	925.1
140°	864.3	868.8	897.6	974.8
142.5°	892.1	902.7	940.0	1022.0
145°	935.4	958.1	1006.6	1088.3
147.5°	984.5	1013.8	1073.8	1157.6
150°	1017.2	1055.0	1118.6	1198.8
152.5°	1054.7	1093.8	1157.3	1238.8
155°	1112.5	1156.4	1223.0	1292.7
157.5°	1171.6	1216.4	1279.9	1340.8
160°	1207.9	1256.3	1313.8	1369.9
162.5°	1249.1	1293.9	1344.1	1394.1
165°	1309.3	1345.6	1386.5	1428.9
167.5°	1359.9	1390.1	1422.2	1455.2
170°	1392.6	1416.8	1444.0	1469.8
172.5°	1420.4	1439.8	1459.8	1481.9
175°	1457.6	1468.2	1480.4	1494.0
177.5°	1486.4	1490.0	1493.7	1499.7
180°	1498.5	1498.5	1498.5	1498.5



TEST NUMBER: P1435980  
 CATALOG NUMBER: SQ2W-FB-K-100U-050D-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	9.22	9.98	10.29	11.05	12.53	18.82	19.57	19.89	20.65	22.12
	3H	10.15	10.83	11.23	11.92	13.40	20.41	21.09	21.50	22.18	23.67
	4H	10.54	11.19	11.64	12.27	13.77	20.58	21.23	21.68	22.32	23.81
	6H	10.79	11.38	11.90	12.47	13.98	20.65	21.25	21.76	22.34	23.85
	8H	10.88	11.44	11.99	12.55	14.05	20.67	21.23	21.78	22.34	23.84
	12H	10.93	11.46	12.04	12.56	14.09	20.64	21.18	21.76	22.28	23.80
4H	2H	13.93	14.57	15.03	15.66	17.15	19.17	19.81	20.27	20.90	22.39
	3H	15.04	15.58	16.15	16.69	18.20	21.04	21.58	22.15	22.70	24.20
	4H	15.32	15.81	16.43	16.92	18.45	21.26	21.75	22.37	22.86	24.39
	6H	15.45	15.87	16.57	17.00	18.52	21.39	21.81	22.51	22.94	24.46
	8H	15.49	15.88	16.61	17.00	18.54	21.43	21.82	22.55	22.94	24.48
	12H	15.48	15.84	16.62	16.97	18.51	21.41	21.76	22.54	22.89	24.44
8H	4H	16.50	16.90	17.62	18.02	19.56	21.34	21.74	22.46	22.86	24.39
	6H	16.76	17.08	17.90	18.24	19.78	21.54	21.86	22.68	23.02	24.56
	8H	16.85	17.14	18.00	18.28	19.83	21.62	21.91	22.77	23.05	24.60
	12H	16.89	17.14	18.04	18.28	19.87	21.62	21.87	22.78	23.01	24.60
12H	4H	16.52	16.88	17.66	18.01	19.55	21.29	21.65	22.43	22.78	24.32
	6H	16.86	17.15	18.01	18.29	19.84	21.52	21.80	22.67	22.94	24.50
	8H	17.00	17.24	18.15	18.38	19.97	21.61	21.86	22.76	23.00	24.59