

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: P1435981

Luminaire Tested: SQ2W-FB-K-100U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435981  
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-L840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

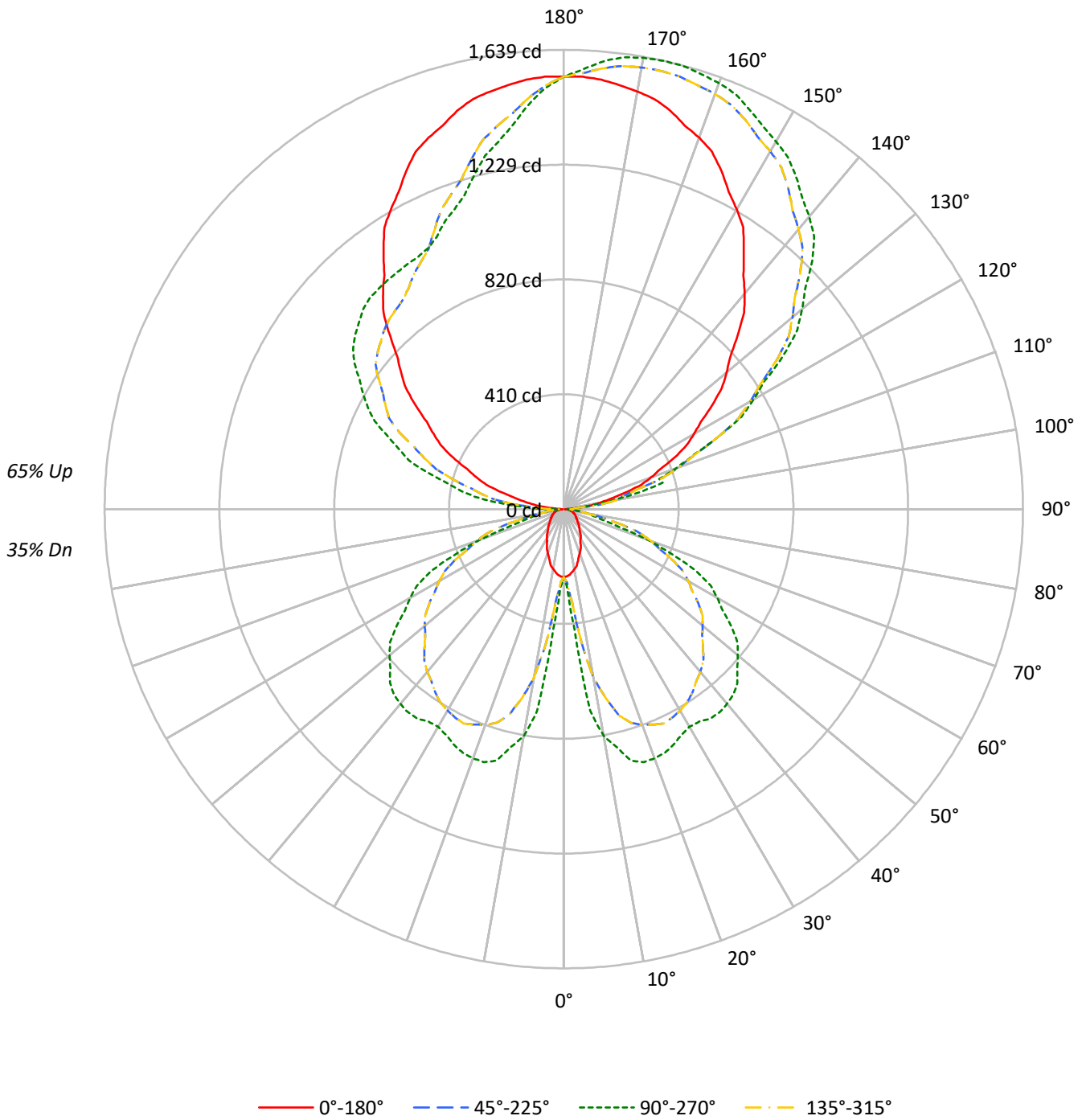
Lumens per Lamp: N/A  
Luminaire Lumens: 6906.3 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 50.9  
Input Voltage (V): 120  
Input Current (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-FB-K-100U-050D-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	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°	3914	3914	3914	3914
5°	3815	6932	3815	6932
10°	3572	13489	3572	13489
15°	3234	15525	3234	15525
20°	2864	16259	2864	16259
25°	2533	16527	2533	16527
30°	2237	16730	2237	16730
35°	1999	17985	1999	17985
40°	1817	19110	1817	19110
45°	1676	20011	1676	20011
50°	1580	20373	1580	20373
55°	1543	20535	1543	20535
60°	1579	20434	1579	20434
65°	1647	19858	1647	19858
70°	1704	15021	1704	15021
75°	1890	8291	1890	8291
80°	1953	7689	1953	7689
85°	1945	3242	1945	3242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 20722 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.6	0.6
10°-20°	185.3	2.7
20°-30°	326.1	4.7
30°-40°	422.1	6.1
40°-50°	465.5	6.7
50°-60°	434.5	6.3
60°-70°	335.7	4.9
70°-80°	154.7	2.2
80°-90°	36.0	0.5
90°-100°	122.8	1.8
100°-110°	358.2	5.2
110°-120°	584.5	8.5
120°-130°	741.7	10.7
130°-140°	793.6	11.5
140°-150°	741.1	10.7
150°-160°	609.8	8.8
160°-170°	409.0	5.9
170°-180°	145.2	2.1
0°-30°	552.0	8.0
0°-40°	974.1	14.1
0°-60°	1874.1	27.1
0°-90°	2400.5	34.8
90°-120°	1065.5	15.4
90°-150°	3341.8	48.4
90°-180°	4506.0	65.2
0°-180°	6906.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	242	242	242	242	242	
5°	235	428	235	428	235	22
15°	194	929	194	929	194	54
25°	142	928	142	928	142	65
35°	101	912	101	912	101	64
45°	73	876	73	876	73	57
55°	55	730	55	730	55	49
65°	43	520	43	520	43	42
75°	30	133	30	133	30	31
85°	10	18	10	18	10	11
90°	5	34	5	67	5	4
95°	48	36	48	210	48	58
105°	228	365	228	502	228	242
115°	436	605	436	745	436	430
125°	645	959	645	913	645	577
135°	878	1255	878	1012	878	678
145°	1121	1446	1121	1034	1121	701
155°	1331	1571	1331	1072	1331	612
165°	1472	1638	1472	1235	1472	414
175°	1538	1604	1538	1448	1538	146
180°	1543	1543	1543	1543	1543	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	240.5	245.1	249.7	254.5	259.5	264.9	270.7	275.7	278.1	280.6	278.1
5°	235.4	251.0	266.5	289.0	313.9	342.1	373.7	400.8	414.2	427.7	414.2
7.5°	226.3	257.9	289.5	356.5	435.2	516.9	601.7	671.9	698.9	725.8	698.9
10°	217.9	262.0	306.0	419.5	556.3	661.4	735.0	793.8	808.3	822.8	808.3
12.5°	208.6	268.4	328.2	468.3	635.3	744.6	796.2	838.6	853.5	868.5	853.5
15°	193.5	278.9	364.4	522.9	705.7	818.1	860.1	895.7	912.3	928.8	912.3
17.5°	177.8	291.6	405.3	567.0	744.7	854.3	895.8	929.2	938.2	947.2	938.2
20°	166.7	300.3	433.9	595.9	767.4	870.9	906.7	934.9	940.6	946.3	940.6
22.5°	156.4	305.8	455.2	617.4	783.8	880.6	907.6	929.4	935.5	941.7	935.5
25°	142.2	310.5	478.9	640.6	800.1	888.4	905.5	919.4	923.5	927.7	923.5
27.5°	128.4	306.3	484.2	643.9	797.5	879.9	891.1	900.5	904.5	908.6	904.5
30°	120.0	300.8	481.6	639.8	790.5	870.0	878.3	886.0	891.7	897.4	891.7
32.5°	112.6	294.2	475.8	632.0	779.9	857.7	865.6	874.6	886.9	899.2	886.9
35°	101.4	280.1	458.8	613.4	760.0	839.5	851.9	866.9	889.7	912.5	889.7
37.5°	91.8	262.0	432.2	585.3	732.6	819.2	845.2	870.2	892.2	914.1	892.2
40°	86.2	249.4	412.6	564.4	712.6	804.0	838.7	869.4	888.0	906.7	888.0
42.5°	80.6	235.1	389.6	540.2	689.6	784.5	825.0	860.1	878.7	897.4	878.7
45°	73.4	212.2	351.0	500.3	653.1	753.4	801.0	841.2	858.8	876.4	858.8
47.5°	66.7	187.2	307.8	457.8	617.5	722.7	773.2	814.3	827.2	840.0	827.2
50°	62.9	170.7	278.4	428.9	593.6	700.8	750.5	790.4	800.8	811.1	800.8
52.5°	59.2	154.5	249.8	400.6	569.9	677.9	724.7	762.2	771.8	781.3	771.8
55°	54.8	132.5	210.2	359.3	532.3	639.3	680.2	713.0	721.3	729.5	721.3
57.5°	50.8	113.5	176.2	320.6	492.4	595.7	630.6	658.5	665.2	672.0	665.2
60°	48.9	103.3	157.7	296.4	463.2	562.4	594.0	619.4	626.1	632.8	626.1
62.5°	46.2	93.5	140.8	272.2	431.5	525.7	554.8	578.2	584.5	590.9	584.5
65°	43.1	81.4	119.8	238.1	383.2	467.8	492.2	511.5	515.6	519.8	515.6
67.5°	38.9	71.5	104.0	207.0	333.5	404.3	419.4	428.8	421.0	413.3	421.0
70°	36.1	66.2	96.2	188.0	300.4	359.2	364.4	362.7	340.4	318.2	340.4
72.5°	34.3	61.0	87.7	167.2	264.3	307.1	295.7	276.6	234.5	192.3	234.5
75°	30.3	52.1	73.8	133.6	206.1	217.5	167.8	130.8	131.8	132.9	131.8
77.5°	24.7	41.0	57.2	94.0	137.6	146.3	120.0	100.5	101.4	102.3	101.4
80°	21.0	33.9	46.9	61.4	76.4	83.4	82.4	81.7	82.2	82.7	82.2
82.5°	17.2	26.9	36.5	45.2	53.6	58.3	59.4	60.0	59.2	58.5	59.2
85°	10.5	16.2	21.9	25.3	27.8	27.1	22.9	19.6	18.5	17.5	18.5
87.5°	4.7	8.0	11.6	12.1	11.4	10.9	10.9	11.2	11.5	11.5	11.5
90°	4.7	10.9	18.7	24.9	29.6	31.2	31.2	32.7	34.3	34.3	34.3
92.5°	17.1	27.1	27.4	27.4	33.4	36.2	38.7	39.0	40.5	40.5	40.5
95°	48.3	53.0	79.5	77.9	53.0	42.1	35.9	35.9	35.9	35.9	35.9
97.5°	92.3	99.1	103.5	138.7	146.5	141.5	115.3	97.0	86.7	82.0	86.7
100°	130.9	134.1	143.4	145.0	183.9	221.3	202.6	179.3	171.5	166.8	171.5
102.5°	169.6	171.5	185.8	192.4	201.4	222.6	287.4	280.3	275.0	274.0	275.0
105°	227.6	229.1	255.6	268.1	274.3	274.3	272.8	304.0	353.8	364.8	353.8
107.5°	289.6	296.8	328.0	361.3	368.5	370.4	362.3	357.6	355.7	357.0	355.7
110°	332.0	342.9	380.3	422.4	433.3	436.5	433.3	428.7	425.5	425.5	425.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	373.2	389.1	431.5	479.8	498.2	507.5	500.7	497.2	494.1	496.6	494.1
115°	436.5	459.8	516.0	565.8	603.2	607.9	606.4	606.4	604.8	604.8	604.8
117.5°	495.1	532.5	595.5	653.4	696.8	709.2	715.5	713.6	711.7	714.9	711.7
120°	536.2	579.9	651.6	717.0	759.1	777.8	784.1	780.9	784.1	780.9	784.1
122.5°	579.9	633.5	703.9	771.9	821.5	842.7	850.2	850.8	851.4	849.5	851.4
125°	645.3	710.8	793.4	863.6	915.0	939.9	946.2	947.7	950.9	958.6	950.9
127.5°	711.4	785.6	876.3	944.0	996.7	1026.9	1036.6	1040.0	1046.6	1050.0	1046.6
130°	757.6	841.7	933.7	997.6	1049.1	1081.8	1098.9	1103.6	1111.4	1109.8	1111.4
132.5°	806.2	894.1	987.3	1053.7	1101.4	1136.7	1151.3	1164.7	1167.5	1169.7	1167.5
135°	877.6	972.7	1066.2	1131.7	1176.9	1211.2	1229.9	1242.3	1250.1	1254.8	1250.1
137.5°	952.7	1053.1	1142.9	1201.2	1246.7	1276.3	1297.5	1310.6	1318.7	1322.5	1318.7
140°	1003.9	1100.5	1187.8	1248.6	1289.1	1318.7	1337.4	1353.0	1362.4	1362.4	1362.4
142.5°	1052.5	1147.9	1232.7	1293.5	1329.0	1356.1	1376.1	1387.9	1398.5	1398.5	1398.5
145°	1120.8	1215.8	1293.8	1354.6	1384.2	1409.1	1431.0	1440.3	1446.5	1446.5	1446.5
147.5°	1192.2	1276.3	1347.4	1405.7	1430.6	1459.9	1477.1	1484.6	1492.4	1488.9	1492.4
150°	1234.6	1312.5	1381.1	1435.6	1460.6	1488.6	1505.8	1512.0	1519.8	1515.1	1519.8
152.5°	1275.7	1349.9	1412.3	1463.1	1484.3	1512.3	1532.0	1538.2	1543.5	1540.1	1543.5
155°	1331.2	1396.7	1454.3	1501.1	1519.8	1546.3	1565.0	1572.8	1579.0	1571.2	1579.0
157.5°	1380.8	1437.2	1487.4	1530.4	1550.4	1573.1	1590.6	1600.2	1606.5	1603.0	1606.5
160°	1410.7	1462.1	1507.3	1547.9	1566.6	1586.8	1605.5	1616.5	1622.7	1618.0	1622.7
162.5°	1435.6	1482.1	1524.8	1561.6	1577.8	1595.6	1618.0	1627.7	1633.9	1628.0	1633.9
165°	1471.5	1508.9	1546.3	1577.5	1591.5	1605.5	1628.9	1639.8	1644.5	1638.3	1644.5
167.5°	1498.6	1527.3	1557.5	1584.3	1594.6	1608.3	1631.7	1640.8	1646.7	1638.9	1646.7
170°	1513.6	1538.5	1565.0	1586.8	1594.6	1607.1	1630.5	1638.3	1643.0	1635.2	1643.0
172.5°	1526.0	1544.7	1566.3	1585.6	1589.6	1599.6	1621.8	1629.5	1633.0	1626.4	1633.0
175°	1538.5	1549.4	1565.0	1577.5	1575.9	1582.2	1600.9	1607.1	1613.3	1604.0	1613.3
177.5°	1544.4	1549.4	1554.4	1561.9	1556.9	1556.9	1570.6	1574.4	1575.6	1570.6	1575.6
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	275.7	270.7	264.9	259.5	254.5	249.7	245.1	240.5	245.1	249.7	254.5
5°	400.8	373.7	342.1	313.9	289.0	266.5	251.0	235.4	251.0	266.5	289.0
7.5°	671.9	601.7	516.9	435.2	356.5	289.5	257.9	226.3	257.9	289.5	356.5
10°	793.8	735.0	661.4	556.3	419.5	306.0	262.0	217.9	262.0	306.0	419.5
12.5°	838.6	796.2	744.6	635.3	468.3	328.2	268.4	208.6	268.4	328.2	468.3
15°	895.7	860.1	818.1	705.7	522.9	364.4	278.9	193.5	278.9	364.4	522.9
17.5°	929.2	895.8	854.3	744.7	567.0	405.3	291.6	177.8	291.6	405.3	567.0
20°	934.9	906.7	870.9	767.4	595.9	433.9	300.3	166.7	300.3	433.9	595.9
22.5°	929.4	907.6	880.6	783.8	617.4	455.2	305.8	156.4	305.8	455.2	617.4
25°	919.4	905.5	888.4	800.1	640.6	478.9	310.5	142.2	310.5	478.9	640.6
27.5°	900.5	891.1	879.9	797.5	643.9	484.2	306.3	128.4	306.3	484.2	643.9
30°	886.0	878.3	870.0	790.5	639.8	481.6	300.8	120.0	300.8	481.6	639.8
32.5°	874.6	865.6	857.7	779.9	632.0	475.8	294.2	112.6	294.2	475.8	632.0
35°	866.9	851.9	839.5	760.0	613.4	458.8	280.1	101.4	280.1	458.8	613.4
37.5°	870.2	845.2	819.2	732.6	585.3	432.2	262.0	91.8	262.0	432.2	585.3
40°	869.4	838.7	804.0	712.6	564.4	412.6	249.4	86.2	249.4	412.6	564.4
42.5°	860.1	825.0	784.5	689.6	540.2	389.6	235.1	80.6	235.1	389.6	540.2
45°	841.2	801.0	753.4	653.1	500.3	351.0	212.2	73.4	212.2	351.0	500.3
47.5°	814.3	773.2	722.7	617.5	457.8	307.8	187.2	66.7	187.2	307.8	457.8
50°	790.4	750.5	700.8	593.6	428.9	278.4	170.7	62.9	170.7	278.4	428.9
52.5°	762.2	724.7	677.9	569.9	400.6	249.8	154.5	59.2	154.5	249.8	400.6
55°	713.0	680.2	639.3	532.3	359.3	210.2	132.5	54.8	132.5	210.2	359.3
57.5°	658.5	630.6	595.7	492.4	320.6	176.2	113.5	50.8	113.5	176.2	320.6
60°	619.4	594.0	562.4	463.2	296.4	157.7	103.3	48.9	103.3	157.7	296.4
62.5°	578.2	554.8	525.7	431.5	272.2	140.8	93.5	46.2	93.5	140.8	272.2
65°	511.5	492.2	467.8	383.2	238.1	119.8	81.4	43.1	81.4	119.8	238.1
67.5°	428.8	419.4	404.3	333.5	207.0	104.0	71.5	38.9	71.5	104.0	207.0
70°	362.7	364.4	359.2	300.4	188.0	96.2	66.2	36.1	66.2	96.2	188.0
72.5°	276.6	295.7	307.1	264.3	167.2	87.7	61.0	34.3	61.0	87.7	167.2
75°	130.8	167.8	217.5	206.1	133.6	73.8	52.1	30.3	52.1	73.8	133.6
77.5°	100.5	120.0	146.3	137.6	94.0	57.2	41.0	24.7	41.0	57.2	94.0
80°	81.7	82.4	83.4	76.4	61.4	46.9	33.9	21.0	33.9	46.9	61.4
82.5°	60.0	59.4	58.3	53.6	45.2	36.5	26.9	17.2	26.9	36.5	45.2
85°	19.6	22.9	27.1	27.8	25.3	21.9	16.2	10.5	16.2	21.9	25.3
87.5°	11.2	10.9	10.9	11.4	12.1	11.6	8.0	4.7	8.0	11.3	12.8
90°	32.7	31.2	31.2	29.6	24.9	18.7	10.9	4.7	10.9	17.1	28.1
92.5°	39.0	38.7	36.2	33.4	27.4	27.4	27.1	17.1	29.6	42.1	60.5
95°	35.9	35.9	42.1	53.0	77.9	79.5	53.0	48.3	68.6	96.6	121.6
97.5°	97.0	115.3	141.5	146.5	138.7	103.5	99.1	92.3	125.6	153.4	193.6
100°	179.3	202.6	221.3	183.9	145.0	143.4	134.1	130.9	166.8	193.3	232.3
102.5°	280.3	287.4	222.6	201.4	192.4	185.8	171.5	169.6	205.4	241.9	274.7
105°	304.0	272.8	274.3	274.3	268.1	255.6	229.1	227.6	268.1	310.2	350.7
107.5°	357.6	362.3	370.4	368.5	361.3	328.0	296.8	289.6	326.1	376.6	421.2
110°	428.7	433.3	436.5	433.3	422.4	380.3	342.9	332.0	364.8	417.8	466.1



TEST NUMBER: P1435981

CATALOG NUMBER: SQ2W-FB-K-100U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	497.2	500.7	507.5	498.2	479.8	431.5	389.1	373.2	405.9	460.2	509.7
115°	606.4	606.4	607.9	603.2	565.8	516.0	459.8	436.5	464.5	514.4	569.0
117.5°	713.6	715.5	709.2	696.8	653.4	595.5	532.5	495.1	517.2	569.9	626.0
120°	780.9	784.1	777.8	759.1	717.0	651.6	579.9	536.2	553.4	604.8	660.9
122.5°	850.8	850.2	842.7	821.5	771.9	703.9	633.5	579.9	587.0	634.7	689.6
125°	947.7	946.2	939.9	915.0	863.6	793.4	710.8	645.3	636.0	676.5	732.6
127.5°	1040.0	1036.6	1026.9	996.7	944.0	876.3	785.6	711.4	690.5	716.1	767.5
130°	1103.6	1098.9	1081.8	1049.1	997.6	933.7	841.7	757.6	727.9	743.5	788.7
132.5°	1164.7	1151.3	1136.7	1101.4	1053.7	987.3	894.1	806.2	765.4	772.2	807.4
135°	1242.3	1229.9	1211.2	1176.9	1131.7	1066.2	972.7	877.6	821.5	815.2	835.5
137.5°	1310.6	1297.5	1276.3	1246.7	1201.2	1142.9	1053.1	952.7	882.0	861.1	868.9
140°	1353.0	1337.4	1318.7	1289.1	1248.6	1187.8	1100.5	1003.9	924.4	894.7	890.1
142.5°	1387.9	1376.1	1356.1	1329.0	1293.5	1232.7	1147.9	1052.5	968.0	929.7	918.7
145°	1440.3	1431.0	1409.1	1384.2	1354.6	1293.8	1215.8	1120.8	1036.6	986.7	963.3
147.5°	1484.6	1477.1	1459.9	1430.6	1405.7	1347.4	1276.3	1192.2	1105.8	1044.1	1013.8
150°	1512.0	1505.8	1488.6	1460.6	1435.6	1381.1	1312.5	1234.6	1151.9	1086.5	1047.5
152.5°	1538.2	1532.0	1512.3	1484.3	1463.1	1412.3	1349.9	1275.7	1191.8	1126.4	1086.2
155°	1572.8	1565.0	1546.3	1519.8	1501.1	1454.3	1396.7	1331.2	1259.5	1190.9	1145.7
157.5°	1600.2	1590.6	1573.1	1550.4	1530.4	1487.4	1437.2	1380.8	1318.1	1252.6	1206.5
160°	1616.5	1605.5	1586.8	1566.6	1547.9	1507.3	1462.1	1410.7	1353.0	1293.8	1243.9
162.5°	1627.7	1618.0	1595.6	1577.8	1561.6	1524.8	1482.1	1435.6	1384.2	1332.4	1286.3
165°	1639.8	1628.9	1605.5	1591.5	1577.5	1546.3	1508.9	1471.5	1427.8	1385.8	1348.3
167.5°	1640.8	1631.7	1608.3	1594.6	1584.3	1557.5	1527.3	1498.6	1464.6	1431.6	1400.4
170°	1638.3	1630.5	1607.1	1594.6	1586.8	1565.0	1538.5	1513.6	1487.1	1459.0	1434.1
172.5°	1629.5	1621.8	1599.6	1589.6	1585.6	1566.3	1544.7	1526.0	1503.3	1482.7	1462.8
175°	1607.1	1600.9	1582.2	1575.9	1577.5	1565.0	1549.4	1538.5	1524.5	1512.0	1501.1
177.5°	1574.4	1570.6	1556.9	1556.9	1561.9	1554.4	1549.4	1544.4	1538.2	1534.5	1530.7
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1435981

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	259.5	264.9	270.7	275.7	278.1	280.6	278.1	275.7	270.7	264.9	259.5
5°	313.9	342.1	373.7	400.8	414.2	427.7	414.2	400.8	373.7	342.1	313.9
7.5°	435.2	516.9	601.7	671.9	698.9	725.8	698.9	671.9	601.7	516.9	435.2
10°	556.3	661.4	735.0	793.8	808.3	822.8	808.3	793.8	735.0	661.4	556.3
12.5°	635.3	744.6	796.2	838.6	853.5	868.5	853.5	838.6	796.2	744.6	635.3
15°	705.7	818.1	860.1	895.7	912.3	928.8	912.3	895.7	860.1	818.1	705.7
17.5°	744.7	854.3	895.8	929.2	938.2	947.2	938.2	929.2	895.8	854.3	744.7
20°	767.4	870.9	906.7	934.9	940.6	946.3	940.6	934.9	906.7	870.9	767.4
22.5°	783.8	880.6	907.6	929.4	935.5	941.7	935.5	929.4	907.6	880.6	783.8
25°	800.1	888.4	905.5	919.4	923.5	927.7	923.5	919.4	905.5	888.4	800.1
27.5°	797.5	879.9	891.1	900.5	904.5	908.6	904.5	900.5	891.1	879.9	797.5
30°	790.5	870.0	878.3	886.0	891.7	897.4	891.7	886.0	878.3	870.0	790.5
32.5°	779.9	857.7	865.6	874.6	886.9	899.2	886.9	874.6	865.6	857.7	779.9
35°	760.0	839.5	851.9	866.9	889.7	912.5	889.7	866.9	851.9	839.5	760.0
37.5°	732.6	819.2	845.2	870.2	892.2	914.1	892.2	870.2	845.2	819.2	732.6
40°	712.6	804.0	838.7	869.4	888.0	906.7	888.0	869.4	838.7	804.0	712.6
42.5°	689.6	784.5	825.0	860.1	878.7	897.4	878.7	860.1	825.0	784.5	689.6
45°	653.1	753.4	801.0	841.2	858.8	876.4	858.8	841.2	801.0	753.4	653.1
47.5°	617.5	722.7	773.2	814.3	827.2	840.0	827.2	814.3	773.2	722.7	617.5
50°	593.6	700.8	750.5	790.4	800.8	811.1	800.8	790.4	750.5	700.8	593.6
52.5°	569.9	677.9	724.7	762.2	771.8	781.3	771.8	762.2	724.7	677.9	569.9
55°	532.3	639.3	680.2	713.0	721.3	729.5	721.3	713.0	680.2	639.3	532.3
57.5°	492.4	595.7	630.6	658.5	665.2	672.0	665.2	658.5	630.6	595.7	492.4
60°	463.2	562.4	594.0	619.4	626.1	632.8	626.1	619.4	594.0	562.4	463.2
62.5°	431.5	525.7	554.8	578.2	584.5	590.9	584.5	578.2	554.8	525.7	431.5
65°	383.2	467.8	492.2	511.5	515.6	519.8	515.6	511.5	492.2	467.8	383.2
67.5°	333.5	404.3	419.4	428.8	421.0	413.3	421.0	428.8	419.4	404.3	333.5
70°	300.4	359.2	364.4	362.7	340.4	318.2	340.4	362.7	364.4	359.2	300.4
72.5°	264.3	307.1	295.7	276.6	234.5	192.3	234.5	276.6	295.7	307.1	264.3
75°	206.1	217.5	167.8	130.8	131.8	132.9	131.8	130.8	167.8	217.5	206.1
77.5°	137.6	146.3	120.0	100.5	101.4	102.3	101.4	100.5	120.0	146.3	137.6
80°	76.4	83.4	82.4	81.7	82.2	82.7	82.2	81.7	82.4	83.4	76.4
82.5°	53.6	58.3	59.4	60.0	59.2	58.5	59.2	60.0	59.4	58.3	53.6
85°	27.8	27.1	22.9	19.6	18.5	17.5	18.5	19.6	22.9	27.1	27.8
87.5°	12.7	14.0	16.2	17.4	18.7	18.1	18.7	17.4	16.2	14.0	12.7
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	63.9	57.7	46.8	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	115.0	103.8	90.4	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	204.2	188.6	166.8	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	291.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	349.2	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	404.0	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	483.2	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	554.3	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	601.7	578.3	545.6	512.8



TEST NUMBER: P1435981

CATALOG NUMBER: SQ2W-FB-K-100U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	559.0	595.5	628.2	651.6	671.2	679.9	671.2	651.6	628.2	595.5	559.0
115°	623.5	671.8	701.4	723.3	737.3	745.1	737.3	723.3	701.4	671.8	623.5
117.5°	677.1	727.6	760.1	776.9	783.4	789.1	783.4	776.9	760.1	727.6	677.1
120°	710.8	757.6	795.0	816.8	824.6	827.7	824.6	816.8	795.0	757.6	710.8
122.5°	742.0	786.2	822.4	849.2	862.0	865.1	862.0	849.2	822.4	786.2	742.0
125°	785.6	827.7	865.1	891.6	905.6	913.4	905.6	891.6	865.1	827.7	785.6
127.5°	823.7	869.2	903.5	927.5	941.2	947.4	941.2	927.5	903.5	869.2	823.7
130°	844.9	891.6	925.9	952.4	964.9	971.1	964.9	952.4	925.9	891.6	844.9
132.5°	861.1	910.3	945.9	969.9	983.6	989.8	983.6	969.9	945.9	910.3	861.1
135°	880.7	932.1	969.6	992.9	1005.4	1011.6	1005.4	992.9	969.6	932.1	880.7
137.5°	897.9	944.6	983.6	1008.2	1019.4	1023.5	1019.4	1008.2	983.6	944.6	897.9
140°	910.3	950.9	989.8	1013.2	1025.7	1027.2	1025.7	1013.2	989.8	950.9	910.3
142.5°	926.5	958.3	992.3	1015.7	1028.2	1031.0	1028.2	1015.7	992.3	958.3	926.5
145°	955.5	974.2	997.6	1019.4	1030.4	1033.5	1030.4	1019.4	997.6	974.2	955.5
147.5°	992.0	997.9	1010.1	1024.4	1035.0	1037.2	1035.0	1024.4	1010.1	997.9	992.0
150°	1019.4	1017.9	1022.6	1031.9	1041.3	1039.7	1041.3	1031.9	1022.6	1017.9	1019.4
152.5°	1050.6	1041.6	1041.3	1045.6	1050.0	1049.7	1050.0	1045.6	1041.3	1041.6	1050.6
155°	1103.6	1086.5	1077.1	1074.0	1074.0	1072.4	1074.0	1074.0	1077.1	1086.5	1103.6
157.5°	1161.9	1137.9	1123.9	1116.4	1114.2	1110.8	1114.2	1116.4	1123.9	1137.9	1161.9
160°	1201.8	1175.3	1161.3	1148.8	1144.1	1139.5	1144.1	1148.8	1161.3	1175.3	1201.8
162.5°	1239.2	1214.0	1198.7	1187.5	1182.8	1175.6	1182.8	1187.5	1198.7	1214.0	1239.2
165°	1300.0	1273.5	1256.4	1247.0	1240.8	1234.6	1240.8	1247.0	1256.4	1273.5	1300.0
167.5°	1360.8	1331.8	1320.6	1310.0	1304.1	1292.8	1304.1	1310.0	1320.6	1331.8	1360.8
170°	1398.2	1371.7	1365.5	1356.1	1345.2	1332.8	1345.2	1356.1	1365.5	1371.7	1398.2
172.5°	1430.6	1412.9	1406.6	1397.3	1393.9	1383.9	1393.9	1397.3	1406.6	1412.9	1430.6
175°	1477.7	1463.7	1463.7	1462.1	1457.5	1448.1	1457.5	1462.1	1463.7	1463.7	1477.7
177.5°	1517.0	1509.5	1514.5	1514.5	1513.3	1504.5	1513.3	1514.5	1514.5	1509.5	1517.0
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1435981

CATALOG NUMBER: SQ2W-FB-K-100U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	242.4	242.4	242.4	242.4
2.5°	254.5	249.7	245.1	240.5
5°	289.0	266.5	251.0	235.4
7.5°	356.5	289.5	257.9	226.3
10°	419.5	306.0	262.0	217.9
12.5°	468.3	328.2	268.4	208.6
15°	522.9	364.4	278.9	193.5
17.5°	567.0	405.3	291.6	177.8
20°	595.9	433.9	300.3	166.7
22.5°	617.4	455.2	305.8	156.4
25°	640.6	478.9	310.5	142.2
27.5°	643.9	484.2	306.3	128.4
30°	639.8	481.6	300.8	120.0
32.5°	632.0	475.8	294.2	112.6
35°	613.4	458.8	280.1	101.4
37.5°	585.3	432.2	262.0	91.8
40°	564.4	412.6	249.4	86.2
42.5°	540.2	389.6	235.1	80.6
45°	500.3	351.0	212.2	73.4
47.5°	457.8	307.8	187.2	66.7
50°	428.9	278.4	170.7	62.9
52.5°	400.6	249.8	154.5	59.2
55°	359.3	210.2	132.5	54.8
57.5°	320.6	176.2	113.5	50.8
60°	296.4	157.7	103.3	48.9
62.5°	272.2	140.8	93.5	46.2
65°	238.1	119.8	81.4	43.1
67.5°	207.0	104.0	71.5	38.9
70°	188.0	96.2	66.2	36.1
72.5°	167.2	87.7	61.0	34.3
75°	133.6	73.8	52.1	30.3
77.5°	94.0	57.2	41.0	24.7
80°	61.4	46.9	33.9	21.0
82.5°	45.2	36.5	26.9	17.2
85°	25.3	21.9	16.2	10.5
87.5°	12.8	11.3	8.0	4.7
90°	28.1	17.1	10.9	4.7
92.5°	60.5	42.1	29.6	17.1
95°	121.6	96.6	68.6	48.3
97.5°	193.6	153.4	125.6	92.3
100°	232.3	193.3	166.8	130.9
102.5°	274.7	241.9	205.4	169.6
105°	350.7	310.2	268.1	227.6
107.5°	421.2	376.6	326.1	289.6
110°	466.1	417.8	364.8	332.0



TEST NUMBER: P1435981

CATALOG NUMBER: SQ2W-FB-K-100U-050D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	509.7	460.2	405.9	373.2
115°	569.0	514.4	464.5	436.5
117.5°	626.0	569.9	517.2	495.1
120°	660.9	604.8	553.4	536.2
122.5°	689.6	634.7	587.0	579.9
125°	732.6	676.5	636.0	645.3
127.5°	767.5	716.1	690.5	711.4
130°	788.7	743.5	727.9	757.6
132.5°	807.4	772.2	765.4	806.2
135°	835.5	815.2	821.5	877.6
137.5°	868.9	861.1	882.0	952.7
140°	890.1	894.7	924.4	1003.9
142.5°	918.7	929.7	968.0	1052.5
145°	963.3	986.7	1036.6	1120.8
147.5°	1013.8	1044.1	1105.8	1192.2
150°	1047.5	1086.5	1151.9	1234.6
152.5°	1086.2	1126.4	1191.8	1275.7
155°	1145.7	1190.9	1259.5	1331.2
157.5°	1206.5	1252.6	1318.1	1380.8
160°	1243.9	1293.8	1353.0	1410.7
162.5°	1286.3	1332.4	1384.2	1435.6
165°	1348.3	1385.8	1427.8	1471.5
167.5°	1400.4	1431.6	1464.6	1498.6
170°	1434.1	1459.0	1487.1	1513.6
172.5°	1462.8	1482.7	1503.3	1526.0
175°	1501.1	1512.0	1524.5	1538.5
177.5°	1530.7	1534.5	1538.2	1544.4
180°	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1435981  
 CATALOG NUMBER: SQ2W-FB-K-100U-050D-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	9.32	10.08	10.40	11.16	12.63	18.92	19.67	19.99	20.75	22.22
	3H	10.25	10.93	11.34	12.02	13.51	20.52	21.19	21.60	22.28	23.77
	4H	10.65	11.29	11.74	12.38	13.87	20.69	21.33	21.78	22.42	23.91
	6H	10.90	11.49	12.00	12.58	14.09	20.76	21.35	21.86	22.44	23.95
	8H	10.98	11.55	12.09	12.65	14.16	20.77	21.33	21.88	22.44	23.94
	12H	11.03	11.56	12.14	12.66	14.19	20.75	21.28	21.86	22.38	23.91
4H	2H	14.03	14.67	15.13	15.76	17.25	19.27	19.91	20.37	21.00	22.50
	3H	15.15	15.68	16.25	16.80	18.31	21.15	21.68	22.26	22.80	24.31
	4H	15.42	15.92	16.54	17.02	18.55	21.36	21.86	22.48	22.96	24.49
	6H	15.55	15.97	16.67	17.10	18.62	21.49	21.91	22.61	23.04	24.56
	8H	15.59	15.98	16.71	17.10	18.64	21.53	21.92	22.65	23.04	24.58
	12H	15.59	15.94	16.72	17.07	18.62	21.51	21.86	22.65	23.00	24.54
8H	4H	16.61	17.00	17.73	18.12	19.66	21.45	21.84	22.57	22.96	24.50
	6H	16.86	17.18	18.00	18.35	19.88	21.64	21.96	22.78	23.12	24.66
	8H	16.96	17.24	18.10	18.38	19.94	21.73	22.01	22.88	23.15	24.71
	12H	16.99	17.24	18.15	18.38	19.97	21.73	21.98	22.88	23.11	24.70
12H	4H	16.63	16.98	17.76	18.11	19.66	21.39	21.75	22.53	22.88	24.42
	6H	16.97	17.25	18.11	18.39	19.95	21.62	21.90	22.77	23.05	24.60
	8H	17.10	17.35	18.25	18.48	20.07	21.71	21.96	22.87	23.10	24.69