

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: P1428209

Luminaire Tested: SQ2W-PR1-K-050U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428209  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-050U-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

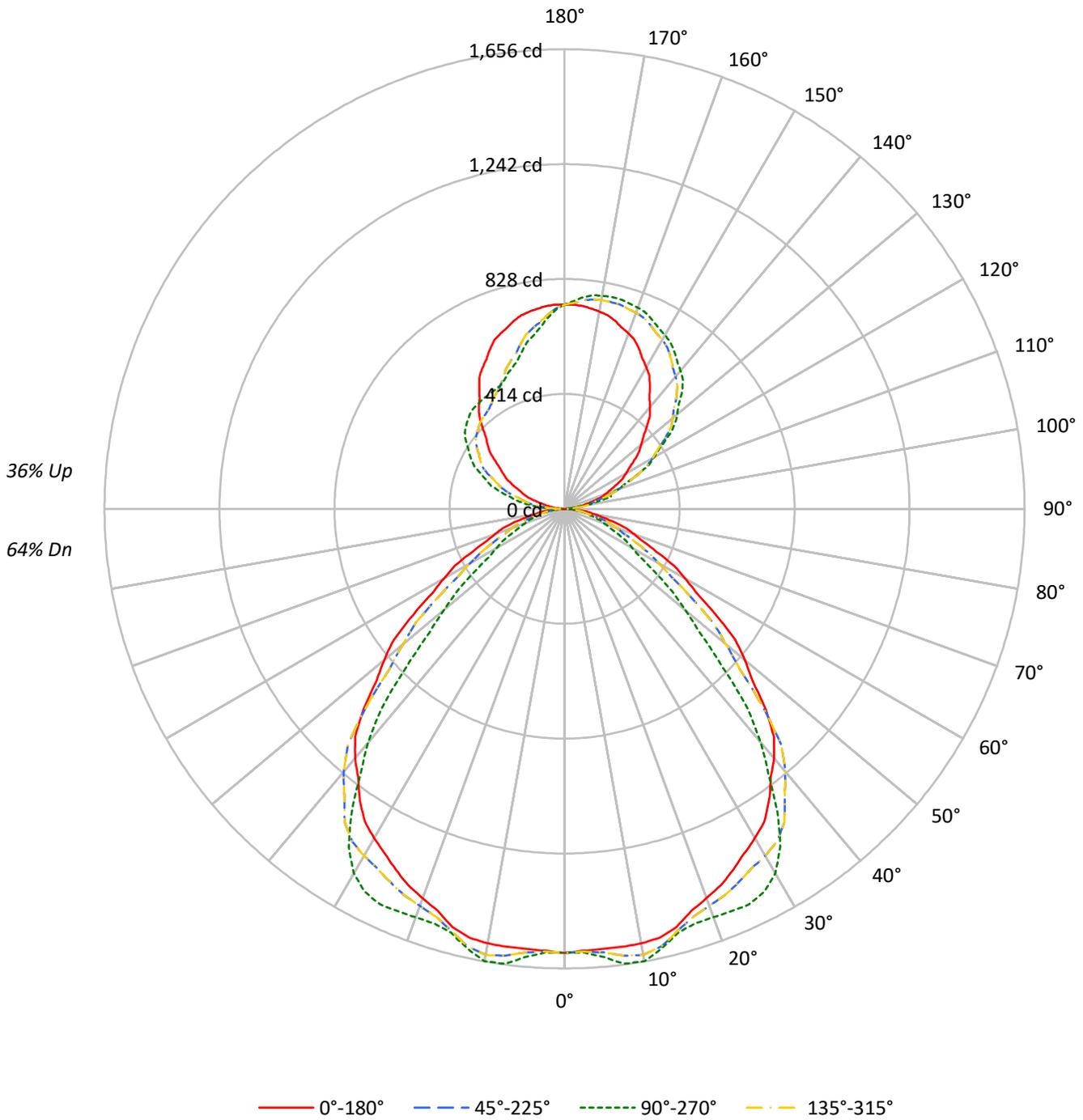
Lumens per Lamp: N/A  
Luminaire Lumens: 6001.4 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.6  
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-PR1-K-050U-075D-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	0	
RCR																						
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	98	94	91	96	92	89	86	81	79	77	71	70	68	62	61	60	56				
2	93	86	80	75	88	81	76	72	72	68	65	64	61	58	56	54	52	48				
3	86	76	69	64	80	72	66	61	64	59	55	57	53	50	50	47	45	41				
4	79	68	60	55	74	65	58	52	58	52	48	51	47	43	45	42	39	36				
5	73	61	53	47	68	58	51	45	52	46	42	46	42	38	41	38	35	32				
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28				
7	62	50	42	37	58	48	40	35	43	37	33	38	34	30	34	30	28	25				
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25	23				
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	22	20				
10	50	38	31	26	48	37	30	26	33	28	24	30	25	22	27	23	20	19				

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

	0°	90°	180°	270°
0°	25834	25834	25834	25834
5°	25800	26277	25800	26277
10°	26072	27141	26072	27141
15°	26064	26418	26064	26418
20°	25642	26903	25642	26903
25°	25569	28010	25569	28010
30°	25543	28280	25543	28280
35°	25300	26329	25300	26329
40°	24716	23169	24716	23169
45°	23388	18324	23388	18324
50°	21262	14217	21262	14217
55°	18685	11065	18685	11065
60°	16168	9113	16168	9113
65°	13960	7977	13960	7977
70°	12552	7086	12552	7086
75°	11497	6513	11497	6513
80°	10004	6369	10004	6369
85°	7243	3020	7243	3020

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 25110 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	2.6
10°-20°	447.3	7.5
20°-30°	691.5	11.5
30°-40°	831.6	13.9
40°-50°	746.7	12.4
50°-60°	500.3	8.3
60°-70°	291.1	4.9
70°-80°	149.5	2.5
80°-90°	39.9	0.7
90°-100°	58.6	1.0
100°-110°	170.8	2.8
110°-120°	278.8	4.6
120°-130°	353.7	5.9
130°-140°	378.5	6.3
140°-150°	353.4	5.9
150°-160°	290.8	4.8
160°-170°	195.1	3.3
170°-180°	69.3	1.2
0°-30°	1293.3	21.6
0°-40°	2124.9	35.4
0°-60°	3372.0	56.2
0°-90°	3852.5	64.2
90°-120°	508.2	8.5
90°-150°	1593.8	26.6
90°-180°	2149.0	35.8
0°-180°	6001.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1600	1600	1600	1600	1600	
5°	1592	1621	1592	1621	1592	152
15°	1559	1580	1559	1580	1559	438
25°	1435	1572	1435	1572	1435	662
35°	1284	1336	1284	1336	1284	800
45°	1024	802	1024	802	1024	784
55°	664	393	664	393	664	597
65°	365	209	365	209	365	370
75°	184	104	184	104	184	196
85°	39	16	39	16	39	49
90°	2	16	2	32	2	3
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°	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1593.5	1602.2	1610.9	1607.0	1598.9	1595.1	1595.7	1596.6	1598.3	1600.1	1598.3
5°	1591.9	1604.2	1616.5	1613.6	1605.7	1602.4	1603.9	1606.8	1614.0	1621.3	1614.0
7.5°	1591.6	1609.1	1626.7	1628.0	1623.9	1624.0	1628.2	1633.8	1643.3	1652.9	1643.3
10°	1590.3	1611.3	1632.3	1635.4	1632.5	1631.4	1632.1	1635.2	1645.4	1655.5	1645.4
12.5°	1582.4	1606.9	1631.4	1628.9	1617.3	1611.0	1609.9	1610.6	1616.1	1621.6	1616.1
15°	1559.3	1588.3	1617.3	1605.5	1580.1	1568.5	1570.7	1573.2	1576.9	1580.5	1576.9
17.5°	1518.5	1548.8	1579.1	1568.5	1544.3	1536.1	1543.9	1551.6	1558.7	1565.8	1558.7
20°	1492.4	1522.1	1551.8	1544.6	1525.0	1520.3	1530.5	1541.2	1553.5	1565.8	1553.5
22.5°	1468.9	1498.6	1528.4	1523.7	1507.6	1506.7	1520.9	1535.8	1552.8	1569.7	1552.8
25°	1435.3	1461.4	1487.5	1488.1	1480.1	1488.1	1512.0	1534.6	1553.5	1572.3	1553.5
27.5°	1400.1	1415.5	1430.8	1441.0	1449.4	1469.8	1502.1	1529.6	1542.8	1556.0	1542.8
30°	1370.1	1380.2	1390.4	1409.2	1431.0	1456.0	1484.2	1506.7	1511.8	1516.9	1511.8
32.5°	1337.5	1343.5	1349.6	1376.2	1409.5	1433.7	1448.6	1458.2	1451.6	1445.1	1451.6
35°	1283.6	1288.7	1293.8	1327.7	1371.2	1387.1	1375.5	1363.4	1349.6	1335.8	1349.6
37.5°	1219.7	1230.1	1240.6	1268.2	1301.5	1301.2	1267.3	1237.9	1222.1	1206.3	1222.1
40°	1172.7	1190.1	1207.5	1226.0	1244.8	1228.9	1178.2	1135.6	1117.4	1099.3	1117.4
42.5°	1115.3	1143.1	1171.0	1175.1	1171.3	1137.1	1072.5	1018.4	996.2	974.1	996.2
45°	1024.3	1062.0	1099.7	1078.1	1036.8	981.0	910.7	851.8	827.1	802.5	827.1
47.5°	917.0	955.7	994.4	953.7	886.6	821.6	758.9	706.0	683.0	659.9	683.0
50°	846.5	877.7	908.9	862.8	791.1	725.8	667.1	616.7	591.3	566.0	591.3
52.5°	774.7	797.2	819.7	774.1	705.8	642.3	583.6	533.8	510.7	487.7	510.7
55°	663.8	675.4	687.0	644.8	584.6	526.6	470.8	425.0	409.0	393.1	409.0
57.5°	562.1	569.5	576.8	536.8	481.0	429.4	382.0	343.5	331.8	320.0	331.8
60°	500.7	505.8	510.9	470.3	414.5	368.1	331.1	301.0	291.6	282.2	291.6
62.5°	444.6	448.5	452.5	413.3	359.8	318.3	288.9	265.1	258.0	250.9	258.0
65°	365.4	369.0	372.6	339.3	293.6	259.5	237.0	218.9	213.8	208.8	213.8
67.5°	302.4	304.3	306.2	278.7	241.4	214.0	196.3	181.8	177.0	172.2	177.0
70°	265.9	266.6	267.3	243.0	210.4	186.1	170.2	157.3	153.7	150.1	153.7
72.5°	233.2	232.2	231.2	209.5	181.0	160.2	147.1	136.7	134.3	131.8	134.3
75°	184.3	182.1	180.0	162.0	138.8	122.9	114.2	107.3	105.8	104.4	105.8
77.5°	137.7	135.3	133.0	118.1	98.9	87.9	85.0	82.9	82.9	82.9	82.9
80°	107.6	104.7	101.8	90.3	75.8	68.5	68.5	68.5	68.5	68.5	68.5
82.5°	80.2	76.2	72.1	65.0	56.9	52.8	52.8	52.7	52.1	51.5	52.1
85°	39.1	35.5	31.9	31.0	31.0	28.8	24.5	20.7	18.5	16.3	18.5
87.5°	10.9	11.5	12.2	10.6	8.2	6.9	6.9	7.0	7.2	7.2	7.2
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°	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1596.6	1595.7	1595.1	1598.9	1607.0	1610.9	1602.2	1593.5	1602.2	1610.9	1607.0
5°	1606.8	1603.9	1602.4	1605.7	1613.6	1616.5	1604.2	1591.9	1604.2	1616.5	1613.6
7.5°	1633.8	1628.2	1624.0	1623.9	1628.0	1626.7	1609.1	1591.6	1609.1	1626.7	1628.0
10°	1635.2	1632.1	1631.4	1632.5	1635.4	1632.3	1611.3	1590.3	1611.3	1632.3	1635.4
12.5°	1610.6	1609.9	1611.0	1617.3	1628.9	1631.4	1606.9	1582.4	1606.9	1631.4	1628.9
15°	1573.2	1570.7	1568.5	1580.1	1605.5	1617.3	1588.3	1559.3	1588.3	1617.3	1605.5
17.5°	1551.6	1543.9	1536.1	1544.3	1568.5	1579.1	1548.8	1518.5	1548.8	1579.1	1568.5
20°	1541.2	1530.5	1520.3	1525.0	1544.6	1551.8	1522.1	1492.4	1522.1	1551.8	1544.6
22.5°	1535.8	1520.9	1506.7	1507.6	1523.7	1528.4	1498.6	1468.9	1498.6	1528.4	1523.7
25°	1534.6	1512.0	1488.1	1480.1	1488.1	1487.5	1461.4	1435.3	1461.4	1487.5	1488.1
27.5°	1529.6	1502.1	1469.8	1449.4	1441.0	1430.8	1415.5	1400.1	1415.5	1430.8	1441.0
30°	1506.7	1484.2	1456.0	1431.0	1409.2	1390.4	1380.2	1370.1	1380.2	1390.4	1409.2
32.5°	1458.2	1448.6	1433.7	1409.5	1376.2	1349.6	1343.5	1337.5	1343.5	1349.6	1376.2
35°	1363.4	1375.5	1387.1	1371.2	1327.7	1293.8	1288.7	1283.6	1288.7	1293.8	1327.7
37.5°	1237.9	1267.3	1301.2	1301.5	1268.2	1240.6	1230.1	1219.7	1230.1	1240.6	1268.2
40°	1135.6	1178.2	1228.9	1244.8	1226.0	1207.5	1190.1	1172.7	1190.1	1207.5	1226.0
42.5°	1018.4	1072.5	1137.1	1171.3	1175.1	1171.0	1143.1	1115.3	1143.1	1171.0	1175.1
45°	851.8	910.7	981.0	1036.8	1078.1	1099.7	1062.0	1024.3	1062.0	1099.7	1078.1
47.5°	706.0	758.9	821.6	886.6	953.7	994.4	955.7	917.0	955.7	994.4	953.7
50°	616.7	667.1	725.8	791.1	862.8	908.9	877.7	846.5	877.7	908.9	862.8
52.5°	533.8	583.6	642.3	705.8	774.1	819.7	797.2	774.7	797.2	819.7	774.1
55°	425.0	470.8	526.6	584.6	644.8	687.0	675.4	663.8	675.4	687.0	644.8
57.5°	343.5	382.0	429.4	481.0	536.8	576.8	569.5	562.1	569.5	576.8	536.8
60°	301.0	331.1	368.1	414.5	470.3	510.9	505.8	500.7	505.8	510.9	470.3
62.5°	265.1	288.9	318.3	359.8	413.3	452.5	448.5	444.6	448.5	452.5	413.3
65°	218.9	237.0	259.5	293.6	339.3	372.6	369.0	365.4	369.0	372.6	339.3
67.5°	181.8	196.3	214.0	241.4	278.7	306.2	304.3	302.4	304.3	306.2	278.7
70°	157.3	170.2	186.1	210.4	243.0	267.3	266.6	265.9	266.6	267.3	243.0
72.5°	136.7	147.1	160.2	181.0	209.5	231.2	232.2	233.2	232.2	231.2	209.5
75°	107.3	114.2	122.9	138.8	162.0	180.0	182.1	184.3	182.1	180.0	162.0
77.5°	82.9	85.0	87.9	98.9	118.1	133.0	135.3	137.7	135.3	133.0	118.1
80°	68.5	68.5	68.5	75.8	90.3	101.8	104.7	107.6	104.7	101.8	90.3
82.5°	52.7	52.8	52.8	56.9	65.0	72.1	76.2	80.2	76.2	72.1	65.0
85°	20.7	24.5	28.8	31.0	31.0	31.9	35.5	39.1	35.5	31.9	31.0
87.5°	7.0	6.9	6.9	8.2	10.6	12.2	11.5	10.9	11.5	12.1	10.9
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: P1428209

CATALOG NUMBER: SQ2W-PR1-K-050U-075D-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: P1428209

CATALOG NUMBER: SQ2W-PR1-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1598.9	1595.1	1595.7	1596.6	1598.3	1600.1	1598.3	1596.6	1595.7	1595.1	1598.9
5°	1605.7	1602.4	1603.9	1606.8	1614.0	1621.3	1614.0	1606.8	1603.9	1602.4	1605.7
7.5°	1623.9	1624.0	1628.2	1633.8	1643.3	1652.9	1643.3	1633.8	1628.2	1624.0	1623.9
10°	1632.5	1631.4	1632.1	1635.2	1645.4	1655.5	1645.4	1635.2	1632.1	1631.4	1632.5
12.5°	1617.3	1611.0	1609.9	1610.6	1616.1	1621.6	1616.1	1610.6	1609.9	1611.0	1617.3
15°	1580.1	1568.5	1570.7	1573.2	1576.9	1580.5	1576.9	1573.2	1570.7	1568.5	1580.1
17.5°	1544.3	1536.1	1543.9	1551.6	1558.7	1565.8	1558.7	1551.6	1543.9	1536.1	1544.3
20°	1525.0	1520.3	1530.5	1541.2	1553.5	1565.8	1553.5	1541.2	1530.5	1520.3	1525.0
22.5°	1507.6	1506.7	1520.9	1535.8	1552.8	1569.7	1552.8	1535.8	1520.9	1506.7	1507.6
25°	1480.1	1488.1	1512.0	1534.6	1553.5	1572.3	1553.5	1534.6	1512.0	1488.1	1480.1
27.5°	1449.4	1469.8	1502.1	1529.6	1542.8	1556.0	1542.8	1529.6	1502.1	1469.8	1449.4
30°	1431.0	1456.0	1484.2	1506.7	1511.8	1516.9	1511.8	1506.7	1484.2	1456.0	1431.0
32.5°	1409.5	1433.7	1448.6	1458.2	1451.6	1445.1	1451.6	1458.2	1448.6	1433.7	1409.5
35°	1371.2	1387.1	1375.5	1363.4	1349.6	1335.8	1349.6	1363.4	1375.5	1387.1	1371.2
37.5°	1301.5	1301.2	1267.3	1237.9	1222.1	1206.3	1222.1	1237.9	1267.3	1301.2	1301.5
40°	1244.8	1228.9	1178.2	1135.6	1117.4	1099.3	1117.4	1135.6	1178.2	1228.9	1244.8
42.5°	1171.3	1137.1	1072.5	1018.4	996.2	974.1	996.2	1018.4	1072.5	1137.1	1171.3
45°	1036.8	981.0	910.7	851.8	827.1	802.5	827.1	851.8	910.7	981.0	1036.8
47.5°	886.6	821.6	758.9	706.0	683.0	659.9	683.0	706.0	758.9	821.6	886.6
50°	791.1	725.8	667.1	616.7	591.3	566.0	591.3	616.7	667.1	725.8	791.1
52.5°	705.8	642.3	583.6	533.8	510.7	487.7	510.7	533.8	583.6	642.3	705.8
55°	584.6	526.6	470.8	425.0	409.0	393.1	409.0	425.0	470.8	526.6	584.6
57.5°	481.0	429.4	382.0	343.5	331.8	320.0	331.8	343.5	382.0	429.4	481.0
60°	414.5	368.1	331.1	301.0	291.6	282.2	291.6	301.0	331.1	368.1	414.5
62.5°	359.8	318.3	288.9	265.1	258.0	250.9	258.0	265.1	288.9	318.3	359.8
65°	293.6	259.5	237.0	218.9	213.8	208.8	213.8	218.9	237.0	259.5	293.6
67.5°	241.4	214.0	196.3	181.8	177.0	172.2	177.0	181.8	196.3	214.0	241.4
70°	210.4	186.1	170.2	157.3	153.7	150.1	153.7	157.3	170.2	186.1	210.4
72.5°	181.0	160.2	147.1	136.7	134.3	131.8	134.3	136.7	147.1	160.2	181.0
75°	138.8	122.9	114.2	107.3	105.8	104.4	105.8	107.3	114.2	122.9	138.8
77.5°	98.9	87.9	85.0	82.9	82.9	82.9	82.9	82.9	85.0	87.9	98.9
80°	75.8	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	75.8
82.5°	56.9	52.8	52.8	52.7	52.1	51.5	52.1	52.7	52.8	52.8	56.9
85°	31.0	28.8	24.5	20.7	18.5	16.3	18.5	20.7	24.5	28.8	31.0
87.5°	8.8	8.4	9.4	10.0	10.6	10.3	10.6	10.0	9.4	8.4	8.8
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	22.3	17.1	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	49.5	43.1	34.3	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	79.5	69.1	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1428209

CATALOG NUMBER: SQ2W-PR1-K-050U-075D-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: P1428209

CATALOG NUMBER: SQ2W-PR1-K-050U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1600.1	1600.1	1600.1	1600.1
2.5°	1607.0	1610.9	1602.2	1593.5
5°	1613.6	1616.5	1604.2	1591.9
7.5°	1628.0	1626.7	1609.1	1591.6
10°	1635.4	1632.3	1611.3	1590.3
12.5°	1628.9	1631.4	1606.9	1582.4
15°	1605.5	1617.3	1588.3	1559.3
17.5°	1568.5	1579.1	1548.8	1518.5
20°	1544.6	1551.8	1522.1	1492.4
22.5°	1523.7	1528.4	1498.6	1468.9
25°	1488.1	1487.5	1461.4	1435.3
27.5°	1441.0	1430.8	1415.5	1400.1
30°	1409.2	1390.4	1380.2	1370.1
32.5°	1376.2	1349.6	1343.5	1337.5
35°	1327.7	1293.8	1288.7	1283.6
37.5°	1268.2	1240.6	1230.1	1219.7
40°	1226.0	1207.5	1190.1	1172.7
42.5°	1175.1	1171.0	1143.1	1115.3
45°	1078.1	1099.7	1062.0	1024.3
47.5°	953.7	994.4	955.7	917.0
50°	862.8	908.9	877.7	846.5
52.5°	774.1	819.7	797.2	774.7
55°	644.8	687.0	675.4	663.8
57.5°	536.8	576.8	569.5	562.1
60°	470.3	510.9	505.8	500.7
62.5°	413.3	452.5	448.5	444.6
65°	339.3	372.6	369.0	365.4
67.5°	278.7	306.2	304.3	302.4
70°	243.0	267.3	266.6	265.9
72.5°	209.5	231.2	232.2	233.2
75°	162.0	180.0	182.1	184.3
77.5°	118.1	133.0	135.3	137.7
80°	90.3	101.8	104.7	107.6
82.5°	65.0	72.1	76.2	80.2
85°	31.0	31.9	35.5	39.1
87.5°	10.9	12.1	11.5	10.9
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: P1428209

CATALOG NUMBER: SQ2W-PR1-K-050U-075D-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: P1428209  
 CATALOG NUMBER: SQ2W-PR1-K-050U-075D-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	19.20	20.15	20.04	21.00	22.06	15.57	16.52	16.41	17.37	18.43
	3H	20.42	21.27	21.27	22.13	23.21	16.74	17.59	17.59	18.45	19.54
	4H	20.91	21.71	21.77	22.57	23.67	17.21	18.01	18.08	18.88	19.97
	6H	21.21	21.94	22.09	22.82	23.93	17.56	18.29	18.43	19.17	20.27
	8H	21.32	22.01	22.20	22.91	24.01	17.70	18.40	18.58	19.29	20.39
	12H	21.36	22.02	22.25	22.91	24.04	17.73	18.40	18.62	19.28	20.41
4H	2H	19.32	20.12	20.19	20.98	22.08	16.30	17.10	17.17	17.96	19.06
	3H	20.79	21.45	21.67	22.35	23.46	17.66	18.32	18.54	19.22	20.33
	4H	21.42	22.02	22.31	22.92	24.05	18.21	18.81	19.10	19.71	20.84
	6H	21.86	22.37	22.76	23.29	24.43	18.65	19.16	19.55	20.08	21.22
	8H	22.02	22.50	22.93	23.41	24.57	18.83	19.31	19.74	20.23	21.38
	12H	22.09	22.52	23.01	23.45	24.61	18.88	19.32	19.81	20.25	21.41
8H	4H	21.45	21.93	22.36	22.85	24.00	18.54	19.03	19.45	19.94	21.09
	6H	21.99	22.39	22.92	23.34	24.49	19.09	19.48	20.02	20.44	21.59
	8H	22.22	22.57	23.17	23.52	24.69	19.35	19.70	20.29	20.65	21.82
	12H	22.34	22.66	23.29	23.59	24.81	19.45	19.76	20.39	20.70	21.92
12H	4H	21.41	21.85	22.34	22.78	23.94	18.57	19.00	19.49	19.93	21.09
	6H	21.98	22.33	22.92	23.28	24.45	19.16	19.51	20.10	20.46	21.63
	8H	22.23	22.54	23.18	23.48	24.70	19.45	19.76	20.40	20.70	21.92