

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1435769

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1435769  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-050U-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL 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**

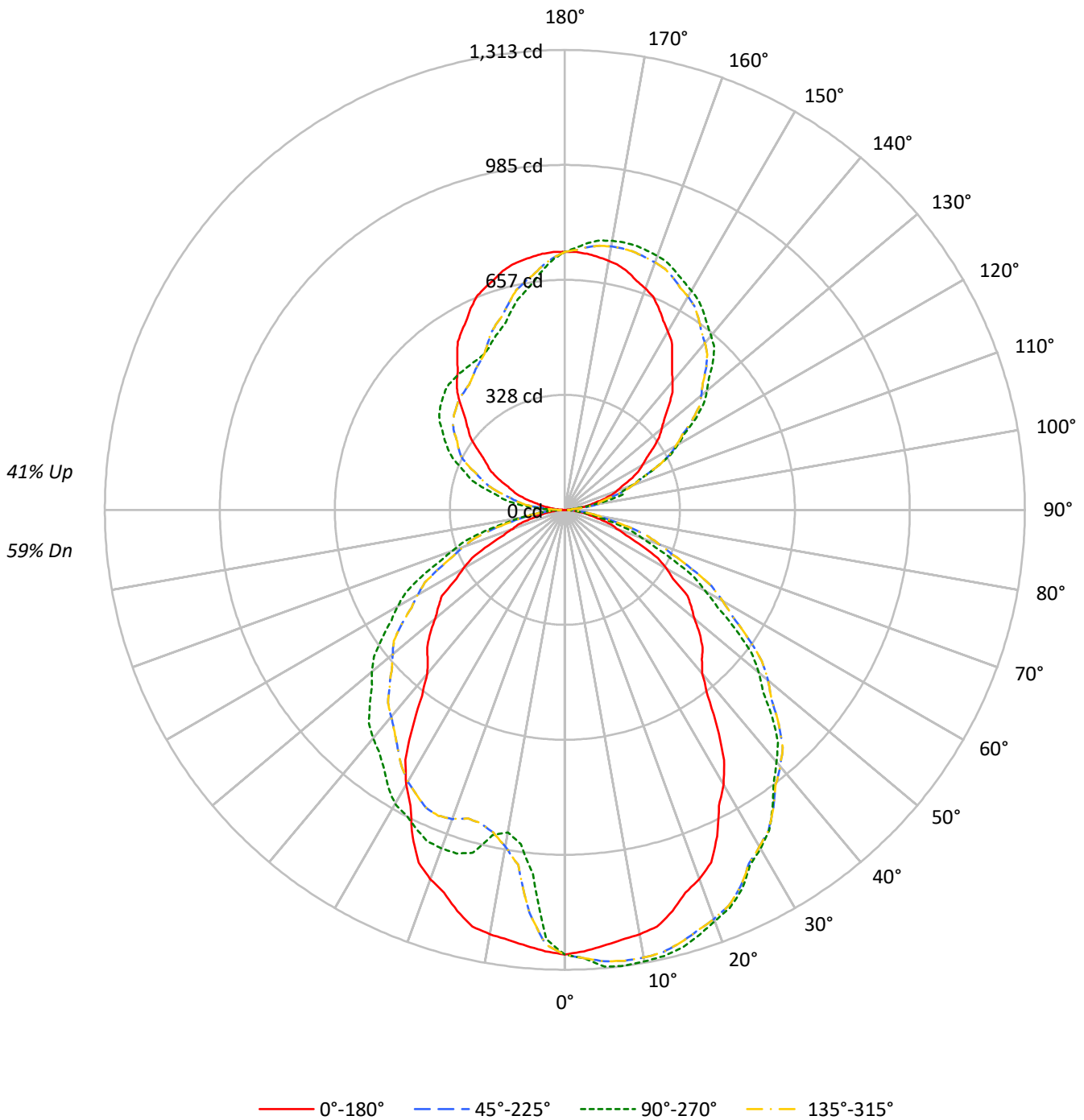
Lumens per Lamp: N/A  
Luminaire Lumens: 5305.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

TEST NUMBER: P1435769

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1435769

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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	100	96	92	88	93	90	86	83	78	75	73	67	66	64	58	56	55	50
2	91	84	77	72	85	78	73	68	68	64	61	59	56	53	51	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	56	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	32	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

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

	0°	90°	180°	270°
0°	20498	20498	20498	20498
5°	20257	21215	20257	16909
10°	20170	21461	20170	15329
15°	19824	21633	19824	16944
20°	19278	21475	19278	17671
25°	18322	21303	18322	17884
30°	16881	20826	16881	18073
35°	14936	20368	14936	17749
40°	12861	19810	12861	17942
45°	12698	19102	12698	17979
50°	12114	18170	12114	18047
55°	12051	16760	12051	17869
60°	10805	14938	10805	17799
65°	9211	13161	9211	17295
70°	7435	11150	7435	16031
75°	6444	9208	6444	14735
80°	5495	6862	5495	11892
85°	3649	3649	3649	7299

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 19701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	2.2
10°-20°	319.2	6.0
20°-30°	484.8	9.1
30°-40°	569.1	10.7
40°-50°	577.5	10.9
50°-60°	505.9	9.5
60°-70°	358.8	6.8
70°-80°	184.7	3.5
80°-90°	41.8	0.8
90°-100°	58.6	1.1
100°-110°	170.8	3.2
110°-120°	278.8	5.3
120°-130°	353.7	6.7
130°-140°	378.5	7.1
140°-150°	353.4	6.7
150°-160°	290.8	5.5
160°-170°	195.1	3.7
170°-180°	69.3	1.3
0°-30°	918.2	17.3
0°-40°	1487.3	28.0
0°-60°	2570.7	48.5
0°-90°	3156.1	59.5
90°-120°	508.2	9.6
90°-150°	1593.8	30.0
90°-180°	2149.0	40.5
0°-180°	5305.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1270	1270	1270	1270	1270	
5°	1250	1309	1250	1043	1250	119
15°	1186	1294	1186	1014	1186	333
25°	1028	1196	1028	1004	1028	470
35°	758	1033	758	900	758	472
45°	556	837	556	787	556	425
55°	428	595	428	635	428	370
65°	241	344	241	453	241	241
75°	103	148	103	236	103	112
85°	20	20	20	39	20	25
90°	2	16	2	32	2	2
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°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1261.7	1270.5	1279.2	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
5°	1249.9	1265.2	1280.6	1287.7	1292.0	1295.3	1297.5	1300.2	1304.6	1309.0	1304.6
7.5°	1238.1	1258.7	1279.2	1289.3	1295.9	1301.1	1305.1	1308.6	1310.7	1312.9	1310.7
10°	1230.3	1254.3	1278.4	1289.3	1295.9	1300.2	1302.4	1304.6	1306.8	1309.0	1306.8
12.5°	1218.4	1244.3	1270.1	1282.7	1291.1	1296.3	1298.5	1300.7	1302.9	1305.1	1302.9
15°	1186.0	1221.0	1256.0	1269.6	1276.2	1281.7	1286.0	1289.9	1292.0	1294.2	1292.0
17.5°	1145.6	1188.0	1230.5	1247.6	1256.4	1262.7	1266.7	1270.1	1271.8	1273.6	1271.8
20°	1122.0	1167.9	1213.9	1231.9	1240.6	1246.1	1248.3	1249.9	1249.9	1249.9	1249.9
22.5°	1090.5	1141.7	1192.9	1212.2	1221.0	1225.6	1226.0	1226.8	1228.5	1230.3	1228.5
25°	1028.5	1087.5	1146.6	1171.2	1184.3	1189.8	1187.6	1187.1	1191.4	1195.8	1191.4
27.5°	952.7	1027.1	1101.4	1126.6	1135.3	1140.8	1143.0	1144.6	1144.6	1144.6	1144.6
30°	905.5	988.6	1071.7	1099.0	1107.8	1113.2	1115.4	1117.1	1117.1	1117.1	1117.1
32.5°	846.4	945.3	1044.1	1074.1	1081.1	1084.8	1085.2	1085.6	1085.6	1085.6	1085.6
35°	757.8	878.1	998.4	1031.8	1036.1	1038.3	1038.3	1037.8	1035.6	1033.4	1035.6
37.5°	669.3	805.7	942.2	981.3	987.8	989.6	986.5	983.7	981.5	979.3	981.5
40°	610.2	758.9	907.7	949.8	956.3	956.3	949.8	944.3	942.1	939.9	942.1
42.5°	578.7	725.7	872.7	914.3	920.9	920.0	911.7	904.9	902.7	900.5	902.7
45°	556.1	687.3	818.5	856.3	862.8	861.7	853.0	845.3	840.9	836.6	840.9
47.5°	521.6	637.1	752.6	789.7	800.6	799.5	786.4	775.4	771.1	766.7	771.1
50°	482.3	596.0	709.7	746.4	757.3	756.2	743.1	732.1	727.8	723.4	727.8
52.5°	454.7	561.4	668.2	701.7	710.9	708.1	693.2	681.0	676.6	672.2	676.6
55°	428.1	517.8	607.5	634.8	641.4	637.0	621.7	608.6	602.0	595.4	602.0
57.5°	366.1	451.4	536.7	563.3	570.3	565.0	547.5	532.6	525.1	517.7	525.1
60°	334.6	411.2	487.7	513.4	522.2	517.8	500.3	484.4	473.5	462.6	473.5
62.5°	299.2	367.0	434.8	460.9	473.2	470.6	453.1	437.2	426.3	415.3	426.3
65°	241.1	300.2	359.2	385.5	400.8	399.7	382.2	366.3	355.4	344.5	355.4
67.5°	189.0	239.7	290.4	316.3	333.8	332.9	313.6	297.0	288.3	279.5	288.3
70°	157.5	201.2	245.0	269.0	286.5	286.5	269.0	253.7	245.0	236.2	245.0
72.5°	137.8	171.0	204.3	227.0	246.3	246.3	227.0	210.8	203.8	196.8	203.8
75°	103.3	123.0	142.7	164.0	185.9	188.1	170.6	156.4	152.0	147.6	152.0
77.5°	74.8	84.0	93.2	109.9	129.1	131.3	116.5	104.9	103.1	101.4	103.1
80°	59.1	61.2	63.4	77.1	94.6	96.8	83.7	73.8	73.8	73.8	73.8
82.5°	39.4	41.6	43.7	53.5	65.7	67.0	57.4	49.8	48.0	46.3	48.0
85°	19.7	19.7	19.7	23.0	27.3	27.3	23.0	19.7	19.7	19.7	19.7
87.5°	4.4	5.0	5.7	7.6	9.8	10.0	8.2	7.1	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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CATALOG NUMBER: SQ2W-FA-K-050U-075D-L830-UNV-STD-W-WM-4

**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°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1281.4	1281.4	1281.4	1281.4	1281.4	1279.2	1270.5	1261.7	1261.7	1261.7	1255.2
5°	1300.2	1297.5	1295.3	1292.0	1287.7	1280.6	1265.2	1249.9	1243.4	1236.8	1208.9
7.5°	1308.6	1305.1	1301.1	1295.9	1289.3	1279.2	1258.7	1238.1	1208.8	1179.5	1117.4
10°	1304.6	1302.4	1300.2	1295.9	1289.3	1278.4	1254.3	1230.3	1171.2	1112.1	1053.1
12.5°	1300.7	1298.5	1296.3	1291.1	1282.7	1270.1	1244.3	1218.4	1134.9	1051.3	998.0
15°	1289.9	1286.0	1281.7	1276.2	1269.6	1256.0	1221.0	1186.0	1091.9	997.9	953.0
17.5°	1270.1	1266.7	1262.7	1256.4	1247.6	1230.5	1188.0	1145.6	1047.2	948.8	919.9
20°	1249.9	1248.3	1246.1	1240.6	1231.9	1213.9	1167.9	1122.0	1023.6	925.2	912.0
22.5°	1226.8	1226.0	1225.6	1221.0	1212.2	1192.9	1141.7	1090.5	993.8	897.2	897.6
25°	1187.1	1187.6	1189.8	1184.3	1171.2	1146.6	1087.5	1028.5	943.2	857.9	872.7
27.5°	1144.6	1143.0	1140.8	1135.3	1126.6	1101.4	1027.1	952.7	885.3	818.0	842.5
30°	1117.1	1115.4	1113.2	1107.8	1099.0	1071.7	988.6	905.5	848.6	791.7	820.2
32.5°	1085.6	1085.2	1084.8	1081.1	1074.1	1044.1	945.3	846.4	805.3	764.2	793.9
35°	1037.8	1038.3	1038.3	1036.1	1031.8	998.4	878.1	757.8	740.3	722.8	757.8
37.5°	983.7	986.5	989.6	987.8	981.3	942.2	805.7	669.3	674.9	680.6	723.1
40°	944.3	949.8	956.3	956.3	949.8	907.7	758.9	610.2	629.9	649.6	695.5
42.5°	904.9	911.7	920.0	920.9	914.3	872.7	725.7	578.7	600.1	621.6	669.3
45°	845.3	853.0	861.7	862.8	856.3	818.5	687.3	556.1	569.2	582.3	628.2
47.5°	775.4	786.4	799.5	800.6	789.7	752.6	637.1	521.6	531.3	540.9	587.9
50°	732.1	743.1	756.2	757.3	746.4	709.7	596.0	482.3	495.4	508.5	557.7
52.5°	681.0	693.2	708.1	710.9	701.7	668.2	561.4	454.7	462.6	470.4	523.6
55°	608.6	621.7	637.0	641.4	634.8	607.5	517.8	428.1	421.6	415.0	469.1
57.5°	532.6	547.5	565.0	570.3	563.3	536.7	451.4	366.1	360.4	354.8	413.4
60°	484.4	500.3	517.8	522.2	513.4	487.7	411.2	334.6	323.7	312.8	374.0
62.5°	437.2	453.1	470.6	473.2	460.9	434.8	367.0	299.2	291.8	284.3	343.8
65°	366.3	382.2	399.7	400.8	385.5	359.2	300.2	241.1	245.5	249.9	303.5
67.5°	297.0	313.6	332.9	333.8	316.3	290.4	239.7	189.0	203.4	217.8	266.1
70°	253.7	269.0	286.5	286.5	269.0	245.0	201.2	157.5	177.2	196.8	241.1
72.5°	210.8	227.0	246.3	246.3	227.0	204.3	171.0	137.8	157.5	177.2	213.6
75°	156.4	170.6	188.1	185.9	164.0	142.7	123.0	103.3	123.0	142.7	170.6
77.5°	104.9	116.5	131.3	129.1	109.9	93.2	84.0	74.8	91.0	107.2	126.6
80°	73.8	83.7	96.8	94.6	77.1	63.4	61.2	59.1	70.0	80.9	95.1
82.5°	49.8	57.4	67.0	65.7	53.5	43.7	41.6	39.4	48.6	57.7	67.6
85°	19.7	23.0	27.3	27.3	23.0	19.7	19.7	19.7	24.1	28.4	32.8
87.5°	7.1	8.2	10.0	9.8	7.6	5.7	5.0	4.4	6.7	9.1	10.5
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1435769

CATALOG NUMBER: SQ2W-FA-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: P1435769

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1246.4	1239.4	1234.2	1229.8	1228.1	1226.3	1228.1	1229.8	1234.2	1239.4	1246.4
5°	1173.9	1136.8	1097.4	1065.1	1054.2	1043.3	1054.2	1065.1	1097.4	1136.8	1173.9
7.5°	1044.3	999.5	982.9	969.5	966.0	962.6	966.0	969.5	982.9	999.5	1044.3
10°	994.0	958.0	944.8	935.0	935.0	935.0	935.0	935.0	944.8	958.0	994.0
12.5°	954.7	932.6	931.7	933.2	942.0	950.7	942.0	933.2	931.7	932.6	954.7
15°	924.6	927.9	962.9	991.9	1002.8	1013.7	1002.8	991.9	962.9	927.9	924.6
17.5°	914.2	933.0	976.3	1011.0	1019.7	1028.5	1019.7	1011.0	976.3	933.0	914.2
20°	927.3	951.4	984.2	1011.0	1019.7	1028.5	1019.7	1011.0	984.2	951.4	927.3
22.5°	930.4	959.7	985.5	1007.1	1015.8	1024.6	1015.8	1007.1	985.5	959.7	930.4
25°	920.8	955.8	977.6	995.1	999.5	1003.9	999.5	995.1	977.6	955.8	920.8
27.5°	897.6	936.1	958.0	975.1	978.2	981.3	978.2	975.1	958.0	936.1	897.6
30°	877.0	916.4	938.3	956.3	962.9	969.4	962.9	956.3	938.3	916.4	877.0
32.5°	847.3	887.5	914.7	935.3	936.6	937.9	936.6	935.3	914.7	887.5	847.3
35°	810.3	851.9	882.5	904.9	902.7	900.5	902.7	904.9	882.5	851.9	810.3
37.5°	777.7	818.4	845.1	865.8	868.4	871.0	868.4	865.8	845.1	818.4	777.7
40°	750.2	791.7	820.2	842.6	847.0	851.3	847.0	842.6	820.2	791.7	750.2
42.5°	725.7	768.1	796.5	819.0	823.3	827.7	823.3	819.0	796.5	768.1	725.7
45°	685.1	728.9	759.5	783.0	785.2	787.4	785.2	783.0	759.5	728.9	685.1
47.5°	647.4	691.3	719.8	741.7	743.8	746.0	743.8	741.7	719.8	691.3	647.4
50°	619.0	663.8	692.2	714.1	716.3	718.5	716.3	714.1	692.2	663.8	619.0
52.5°	591.8	638.4	663.4	682.6	684.8	687.0	684.8	682.6	663.4	638.4	591.8
55°	543.5	592.7	616.8	634.8	634.8	634.8	634.8	634.8	616.8	592.7	543.5
57.5°	493.4	543.9	564.9	581.3	584.0	586.6	584.0	581.3	564.9	543.9	493.4
60°	459.3	510.7	528.2	542.4	546.8	551.2	546.8	542.4	528.2	510.7	459.3
62.5°	425.6	475.3	492.8	506.5	509.2	511.8	509.2	506.5	492.8	475.3	425.6
65°	373.5	417.2	434.7	448.4	450.5	452.7	450.5	448.4	434.7	417.2	373.5
67.5°	325.6	361.4	373.7	383.3	385.0	386.8	385.0	383.3	373.7	361.4	325.6
70°	293.6	324.2	333.0	339.6	339.6	339.6	339.6	339.6	333.0	324.2	293.6
72.5°	255.6	280.9	289.7	296.7	298.4	300.2	298.4	296.7	289.7	280.9	255.6
75°	201.2	219.8	226.4	231.8	234.0	236.2	234.0	231.8	226.4	219.8	201.2
77.5°	147.2	159.4	163.4	166.9	169.1	171.3	169.1	166.9	163.4	159.4	147.2
80°	110.4	119.2	121.4	123.6	125.8	127.9	125.8	123.6	121.4	119.2	110.4
82.5°	77.6	83.8	86.0	87.7	88.1	88.6	88.1	87.7	86.0	83.8	77.6
85°	37.2	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	37.2
87.5°	11.3	12.3	13.4	14.0	14.6	14.3	14.6	14.0	13.4	12.3	11.3
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	54.9	49.5	43.1	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1435769

CATALOG NUMBER: SQ2W-FA-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: P1435769

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1269.6	1269.6	1269.6	1269.6
2.5°	1255.2	1261.7	1261.7	1261.7
5°	1208.9	1236.8	1243.4	1249.9
7.5°	1117.4	1179.5	1208.8	1238.1
10°	1053.1	1112.1	1171.2	1230.3
12.5°	998.0	1051.3	1134.9	1218.4
15°	953.0	997.9	1091.9	1186.0
17.5°	919.9	948.8	1047.2	1145.6
20°	912.0	925.2	1023.6	1122.0
22.5°	897.6	897.2	993.8	1090.5
25°	872.7	857.9	943.2	1028.5
27.5°	842.5	818.0	885.3	952.7
30°	820.2	791.7	848.6	905.5
32.5°	793.9	764.2	805.3	846.4
35°	757.8	722.8	740.3	757.8
37.5°	723.1	680.6	674.9	669.3
40°	695.5	649.6	629.9	610.2
42.5°	669.3	621.6	600.1	578.7
45°	628.2	582.3	569.2	556.1
47.5°	587.9	540.9	531.3	521.6
50°	557.7	508.5	495.4	482.3
52.5°	523.6	470.4	462.6	454.7
55°	469.1	415.0	421.6	428.1
57.5°	413.4	354.8	360.4	366.1
60°	374.0	312.8	323.7	334.6
62.5°	343.8	284.3	291.8	299.2
65°	303.5	249.9	245.5	241.1
67.5°	266.1	217.8	203.4	189.0
70°	241.1	196.8	177.2	157.5
72.5°	213.6	177.2	157.5	137.8
75°	170.6	142.7	123.0	103.3
77.5°	126.6	107.2	91.0	74.8
80°	95.1	80.9	70.0	59.1
82.5°	67.6	57.7	48.6	39.4
85°	32.8	28.4	24.1	19.7
87.5°	10.5	9.1	6.7	4.4
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: P1435769

CATALOG NUMBER: SQ2W-FA-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: P1435769  
 CATALOG NUMBER: SQ2W-FA-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	17.70	18.66	18.58	19.55	20.68	18.90	19.86	19.78	20.75	21.88
	3H	18.80	19.65	19.68	20.56	21.71	20.15	21.01	21.04	21.91	23.06
	4H	19.16	19.96	20.06	20.87	22.04	20.55	21.35	21.45	22.26	23.43
	6H	19.32	20.07	20.23	20.98	22.16	20.71	21.46	21.63	22.37	23.55
	8H	19.36	20.07	20.28	21.00	22.18	20.74	21.45	21.66	22.38	23.56
	12H	19.36	20.03	20.28	20.96	22.16	20.73	21.40	21.65	22.33	23.53
4H	2H	18.58	19.39	19.49	20.30	21.46	19.50	20.30	20.40	21.21	22.38
	3H	19.98	20.65	20.90	21.59	22.77	20.97	21.64	21.89	22.58	23.76
	4H	20.44	21.05	21.37	21.99	23.19	21.45	22.06	22.38	23.00	24.20
	6H	20.67	21.20	21.62	22.16	23.37	21.68	22.21	22.62	23.16	24.37
	8H	20.73	21.23	21.68	22.18	23.40	21.73	22.22	22.67	23.17	24.39
	12H	20.74	21.18	21.70	22.15	23.38	21.72	22.17	22.68	23.14	24.36
8H	4H	20.83	21.32	21.77	22.28	23.49	21.65	22.15	22.60	23.10	24.32
	6H	21.18	21.59	22.15	22.59	23.80	21.97	22.38	22.94	23.37	24.59
	8H	21.30	21.66	22.28	22.65	23.88	22.07	22.43	23.05	23.41	24.65
	12H	21.34	21.66	22.33	22.64	23.92	22.09	22.40	23.07	23.38	24.66
12H	4H	20.84	21.28	21.80	22.25	23.48	21.63	22.07	22.59	23.04	24.27
	6H	21.26	21.62	22.23	22.60	23.84	21.99	22.35	22.97	23.33	24.57
	8H	21.41	21.72	22.39	22.70	23.98	22.11	22.42	23.09	23.40	24.69