

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: P1427854

Luminaire Tested: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427854  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

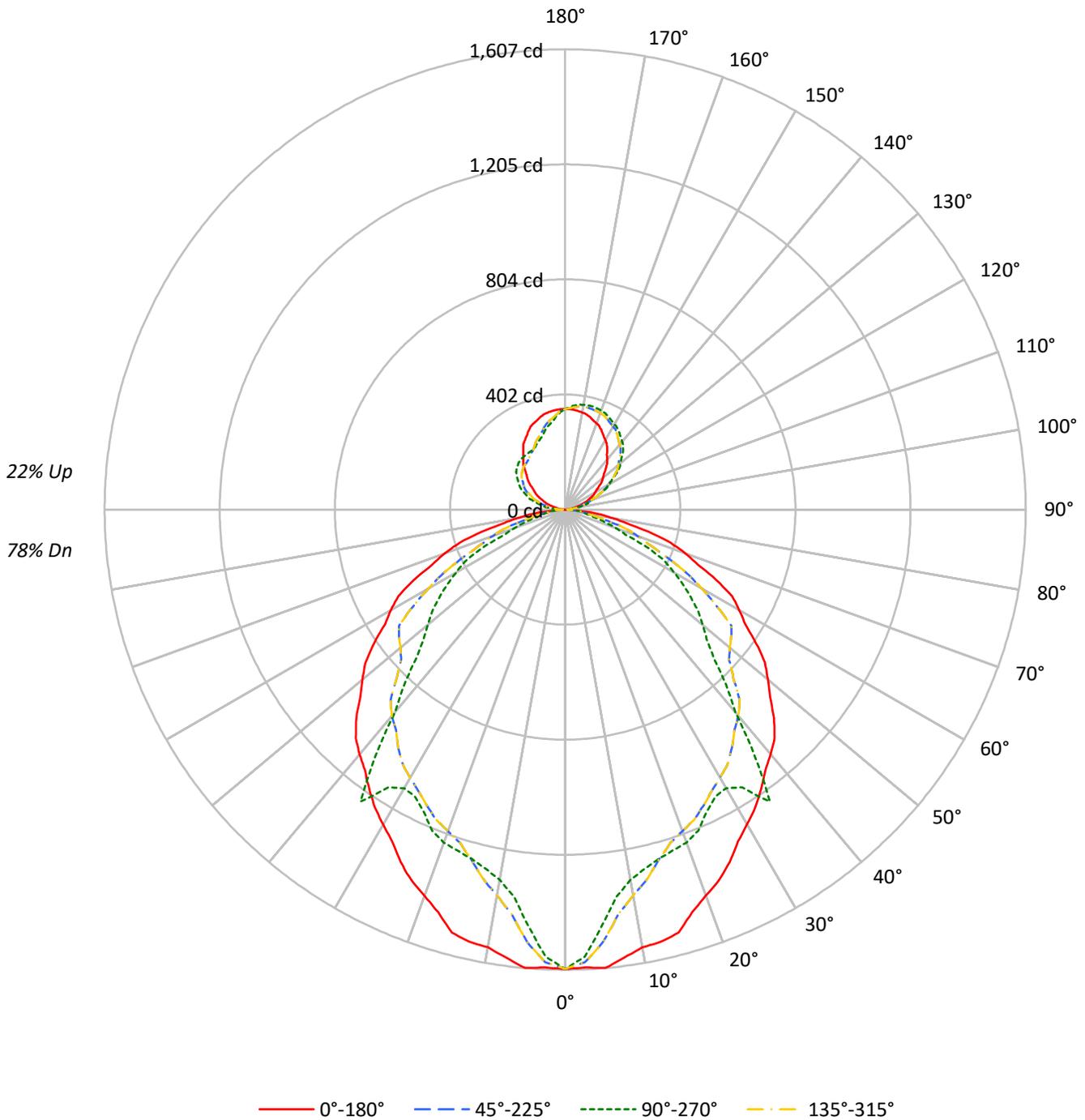
Lumens per Lamp: N/A  
Luminaire Lumens: 4571.4 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.2  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	78		
1	104	100	96	93	99	96	92	89	87	85	82	80	78	76	73	71	70	66		
2	95	88	81	76	91	84	78	73	77	72	68	70	67	64	64	61	59	56		
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	47		
4	80	69	60	54	76	66	58	53	61	54	49	56	51	46	51	47	44	41		
5	73	61	53	47	70	59	51	45	54	48	43	50	45	40	46	42	38	35		
6	68	55	47	41	64	53	45	40	49	43	38	45	40	36	42	37	34	31		
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	34	30	28		
8	58	46	38	32	56	44	36	31	41	34	30	38	32	28	35	30	27	25		
9	55	42	34	29	52	40	33	28	38	31	27	35	29	26	33	28	24	22		
10	51	39	31	26	49	37	30	25	35	29	24	32	27	23	30	26	22	20		

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

	0°	90°	180°	270°
0°	25893	25893	25893	25893
5°	26042	23667	26042	23667
10°	25443	21515	25443	21515
15°	25557	21093	25557	21093
20°	24645	21262	24645	21262
25°	24194	20768	24194	20768
30°	23670	20938	23670	20938
35°	23488	24541	23488	24541
40°	23509	19458	23509	19458
45°	23518	16760	23518	16760
50°	23189	15714	23189	15714
55°	22894	15077	22894	15077
60°	22665	14140	22665	14140
65°	22269	12302	22269	12302
70°	21035	8790	21035	8790
75°	18752	6662	18752	6662
80°	15323	6239	15323	6239
85°	9614	4242	9614	4242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23518 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	3.1
10°-20°	371.2	8.1
20°-30°	544.2	11.9
30°-40°	659.0	14.4
40°-50°	648.0	14.2
50°-60°	563.7	12.3
60°-70°	392.0	8.6
70°-80°	185.9	4.1
80°-90°	42.4	0.9
90°-100°	27.9	0.6
100°-110°	81.4	1.8
110°-120°	132.8	2.9
120°-130°	168.5	3.7
130°-140°	180.3	3.9
140°-150°	168.4	3.7
150°-160°	138.6	3.0
160°-170°	92.9	2.0
170°-180°	33.0	0.7
0°-30°	1056.5	23.1
0°-40°	1715.5	37.5
0°-60°	2927.1	64.0
0°-90°	3547.5	77.6
90°-120°	242.1	5.3
90°-150°	759.4	16.6
90°-180°	1024.0	22.4
0°-180°	4571.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1604	1604	1604	1604	1604	
5°	1607	1460	1607	1460	1607	151
15°	1529	1262	1529	1262	1529	426
25°	1358	1166	1358	1166	1358	625
35°	1192	1245	1192	1245	1192	746
45°	1030	734	1030	734	1030	792
55°	813	536	813	536	813	727
65°	583	322	583	322	583	573
75°	301	107	301	107	301	319
85°	52	23	52	23	52	70
90°	1	8	1	15	1	2
95°	11	8	11	48	11	13
105°	52	83	52	114	52	55
115°	99	137	99	169	99	98
125°	147	218	147	208	147	131
135°	199	285	199	230	199	154
145°	255	329	255	235	255	159
155°	302	357	302	244	302	139
165°	334	372	334	280	334	94
175°	350	364	350	329	350	33
180°	351	351	351	351	351	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1600.1	1607.7	1615.3	1604.5	1587.7	1576.1	1569.6	1564.4	1563.3	1562.2	1563.3
5°	1606.8	1606.1	1605.4	1573.7	1531.7	1500.1	1479.1	1463.0	1461.7	1460.3	1461.7
7.5°	1577.5	1556.5	1535.4	1492.9	1443.1	1406.6	1383.4	1365.7	1364.6	1363.6	1364.6
10°	1551.9	1520.0	1488.1	1440.0	1386.4	1349.1	1328.1	1312.3	1312.3	1312.3	1312.3
12.5°	1545.7	1495.4	1445.1	1392.3	1338.8	1304.2	1288.6	1277.7	1281.0	1284.2	1281.0
15°	1529.0	1453.0	1377.1	1323.5	1277.4	1252.3	1248.2	1247.0	1254.5	1261.9	1254.5
17.5°	1473.4	1391.6	1309.8	1262.7	1227.2	1213.8	1222.5	1231.1	1239.8	1248.5	1239.8
20°	1434.4	1353.7	1273.0	1229.4	1198.2	1190.7	1207.0	1221.2	1229.4	1237.5	1229.4
22.5°	1401.4	1319.6	1237.8	1199.3	1175.1	1172.0	1189.9	1204.4	1208.8	1213.1	1208.8
25°	1358.1	1265.8	1173.6	1145.5	1138.7	1143.1	1158.7	1169.9	1167.8	1165.8	1167.8
27.5°	1306.2	1209.9	1113.6	1095.5	1103.5	1112.3	1121.7	1129.2	1130.4	1131.6	1130.4
30°	1269.6	1173.3	1077.0	1062.5	1075.4	1086.6	1096.1	1105.4	1114.3	1123.1	1114.3
32.5°	1234.2	1134.6	1035.0	1024.7	1044.1	1065.1	1087.6	1109.5	1129.7	1149.9	1129.7
35°	1191.7	1088.0	984.2	976.1	999.8	1030.3	1067.6	1112.2	1178.7	1245.1	1178.7
37.5°	1147.2	1036.0	924.7	921.0	953.2	985.3	1017.5	1046.9	1068.0	1089.2	1068.0
40°	1115.4	998.8	882.1	882.0	920.6	960.6	1002.0	1020.8	972.0	923.2	972.0
42.5°	1081.3	964.6	848.0	844.5	878.9	922.9	976.8	996.6	914.1	831.6	914.1
45°	1030.0	908.6	787.2	782.8	817.4	841.8	856.0	852.0	793.0	734.0	793.0
47.5°	969.6	853.9	738.2	737.2	774.5	777.2	745.4	715.7	692.6	669.6	692.6
50°	923.2	814.0	704.8	709.5	752.3	748.2	697.3	655.5	640.5	625.6	640.5
52.5°	878.0	774.2	670.5	683.1	734.5	726.4	658.7	605.4	595.4	585.3	595.4
55°	813.3	713.6	613.9	642.4	713.6	702.8	609.9	539.7	537.6	535.6	537.6
57.5°	744.6	650.4	556.1	575.9	633.7	622.3	541.7	482.2	485.7	489.2	485.7
60°	701.9	610.4	518.8	521.4	555.3	544.4	488.8	446.1	442.0	437.9	442.0
62.5°	656.8	569.5	482.3	469.7	481.9	469.1	431.4	402.1	398.1	394.0	398.1
65°	582.9	503.6	424.2	400.3	394.9	376.6	345.4	322.0	322.0	322.0	322.0
67.5°	501.7	432.5	363.4	336.6	324.0	305.8	282.1	260.2	243.9	227.7	243.9
70°	445.6	384.5	323.5	295.5	278.6	256.9	230.4	207.9	197.0	186.2	197.0
72.5°	385.8	333.4	281.0	252.4	231.6	210.5	188.9	169.6	157.1	144.7	157.1
75°	300.6	258.6	216.5	188.7	165.6	144.3	124.6	109.5	108.2	106.8	108.2
77.5°	217.3	186.6	156.0	133.5	113.7	98.8	88.9	81.5	81.7	81.8	81.7
80°	164.8	141.7	118.7	97.7	77.3	66.8	66.1	65.8	66.5	67.1	66.5
82.5°	116.0	98.9	81.8	68.4	56.2	50.5	51.5	52.2	52.4	52.5	52.4
85°	51.9	43.7	35.6	32.6	31.2	29.2	26.4	24.2	23.6	22.9	23.6
87.5°	11.2	10.9	10.8	9.7	8.3	7.5	7.5	7.6	7.7	7.7	7.7
90°	1.1	2.5	4.3	5.7	6.7	7.1	7.1	7.4	7.8	7.8	7.8
92.5°	3.9	6.2	6.2	6.2	7.6	8.2	8.8	8.9	9.2	9.2	9.2
95°	11.0	12.0	18.1	17.7	12.0	9.6	8.1	8.1	8.1	8.1	8.1
97.5°	21.0	22.5	23.5	31.5	33.3	32.2	26.2	22.0	19.7	18.6	19.7
100°	29.8	30.5	32.6	32.9	41.8	50.3	46.0	40.7	39.0	37.9	39.0
102.5°	38.5	39.0	42.2	43.7	45.8	50.6	65.3	63.7	62.5	62.3	62.5
105°	51.7	52.1	58.1	60.9	62.3	62.3	62.0	69.1	80.4	82.9	80.4
107.5°	65.8	67.4	74.5	82.1	83.7	84.2	82.3	81.3	80.8	81.1	80.8
110°	75.4	77.9	86.4	96.0	98.5	99.2	98.5	97.4	96.7	96.7	96.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	84.8	88.4	98.0	109.0	113.2	115.3	113.8	113.0	112.3	112.9	112.3
115°	99.2	104.5	117.2	128.6	137.1	138.1	137.8	137.8	137.4	137.4	137.4
117.5°	112.5	121.0	135.3	148.5	158.3	161.2	162.6	162.2	161.7	162.4	161.7
120°	121.9	131.8	148.1	162.9	172.5	176.8	178.2	177.5	178.2	177.5	178.2
122.5°	131.8	144.0	160.0	175.4	186.7	191.5	193.2	193.3	193.5	193.1	193.5
125°	146.6	161.5	180.3	196.2	207.9	213.6	215.0	215.4	216.1	217.8	216.1
127.5°	161.7	178.5	199.1	214.5	226.5	233.4	235.6	236.3	237.8	238.6	237.8
130°	172.2	191.3	212.2	226.7	238.4	245.8	249.7	250.8	252.6	252.2	252.6
132.5°	183.2	203.2	224.4	239.5	250.3	258.3	261.6	264.7	265.3	265.8	265.3
135°	199.4	221.0	242.3	257.2	267.4	275.2	279.5	282.3	284.1	285.1	284.1
137.5°	216.5	239.3	259.7	273.0	283.3	290.0	294.9	297.8	299.7	300.5	299.7
140°	228.1	250.1	269.9	283.7	292.9	299.7	303.9	307.5	309.6	309.6	309.6
142.5°	239.2	260.9	280.1	293.9	302.0	308.2	312.7	315.4	317.8	317.8	317.8
145°	254.7	276.3	294.0	307.8	314.6	320.2	325.2	327.3	328.7	328.7	328.7
147.5°	270.9	290.0	306.2	319.4	325.1	331.8	335.7	337.4	339.1	338.4	339.1
150°	280.5	298.3	313.8	326.2	331.9	338.3	342.2	343.6	345.4	344.3	345.4
152.5°	289.9	306.8	320.9	332.5	337.3	343.7	348.1	349.5	350.8	350.0	350.8
155°	302.5	317.4	330.5	341.1	345.4	351.4	355.6	357.4	358.8	357.1	358.8
157.5°	313.8	326.6	338.0	347.8	352.3	357.5	361.4	363.6	365.1	364.3	365.1
160°	320.6	332.3	342.5	351.7	356.0	360.6	364.9	367.3	368.7	367.7	368.7
162.5°	326.2	336.8	346.5	354.9	358.5	362.6	367.7	369.9	371.3	370.0	371.3
165°	334.4	342.9	351.4	358.5	361.7	364.9	370.2	372.6	373.7	372.3	373.7
167.5°	340.6	347.1	353.9	360.0	362.4	365.5	370.8	372.9	374.2	372.4	374.2
170°	344.0	349.6	355.6	360.6	362.4	365.2	370.5	372.3	373.4	371.6	373.4
172.5°	346.8	351.0	355.9	360.3	361.2	363.5	368.5	370.3	371.1	369.6	371.1
175°	349.6	352.1	355.6	358.5	358.1	359.5	363.8	365.2	366.6	364.5	366.6
177.5°	351.0	352.1	353.2	354.9	353.8	353.8	356.9	357.8	358.0	356.9	358.0
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1564.4	1569.6	1576.1	1587.7	1604.5	1615.3	1607.7	1600.1	1607.7	1615.3	1604.5
5°	1463.0	1479.1	1500.1	1531.7	1573.7	1605.4	1606.1	1606.8	1606.1	1605.4	1573.7
7.5°	1365.7	1383.4	1406.6	1443.1	1492.9	1535.4	1556.5	1577.5	1556.5	1535.4	1492.9
10°	1312.3	1328.1	1349.1	1386.4	1440.0	1488.1	1520.0	1551.9	1520.0	1488.1	1440.0
12.5°	1277.7	1288.6	1304.2	1338.8	1392.3	1445.1	1495.4	1545.7	1495.4	1445.1	1392.3
15°	1247.0	1248.2	1252.3	1277.4	1323.5	1377.1	1453.0	1529.0	1453.0	1377.1	1323.5
17.5°	1231.1	1222.5	1213.8	1227.2	1262.7	1309.8	1391.6	1473.4	1391.6	1309.8	1262.7
20°	1221.2	1207.0	1190.7	1198.2	1229.4	1273.0	1353.7	1434.4	1353.7	1273.0	1229.4
22.5°	1204.4	1189.9	1172.0	1175.1	1199.3	1237.8	1319.6	1401.4	1319.6	1237.8	1199.3
25°	1169.9	1158.7	1143.1	1138.7	1145.5	1173.6	1265.8	1358.1	1265.8	1173.6	1145.5
27.5°	1129.2	1121.7	1112.3	1103.5	1095.5	1113.6	1209.9	1306.2	1209.9	1113.6	1095.5
30°	1105.4	1096.1	1086.6	1075.4	1062.5	1077.0	1173.3	1269.6	1173.3	1077.0	1062.5
32.5°	1109.5	1087.6	1065.1	1044.1	1024.7	1035.0	1134.6	1234.2	1134.6	1035.0	1024.7
35°	1112.2	1067.6	1030.3	999.8	976.1	984.2	1088.0	1191.7	1088.0	984.2	976.1
37.5°	1046.9	1017.5	985.3	953.2	921.0	924.7	1036.0	1147.2	1036.0	924.7	921.0
40°	1020.8	1002.0	960.6	920.6	882.0	882.1	998.8	1115.4	998.8	882.1	882.0
42.5°	996.6	976.8	922.9	878.9	844.5	848.0	964.6	1081.3	964.6	848.0	844.5
45°	852.0	856.0	841.8	817.4	782.8	787.2	908.6	1030.0	908.6	787.2	782.8
47.5°	715.7	745.4	777.2	774.5	737.2	738.2	853.9	969.6	853.9	738.2	737.2
50°	655.5	697.3	748.2	752.3	709.5	704.8	814.0	923.2	814.0	704.8	709.5
52.5°	605.4	658.7	726.4	734.5	683.1	670.5	774.2	878.0	774.2	670.5	683.1
55°	539.7	609.9	702.8	713.6	642.4	613.9	713.6	813.3	713.6	613.9	642.4
57.5°	482.2	541.7	622.3	633.7	575.9	556.1	650.4	744.6	650.4	556.1	575.9
60°	446.1	488.8	544.4	555.3	521.4	518.8	610.4	701.9	610.4	518.8	521.4
62.5°	402.1	431.4	469.1	481.9	469.7	482.3	569.5	656.8	569.5	482.3	469.7
65°	322.0	345.4	376.6	394.9	400.3	424.2	503.6	582.9	503.6	424.2	400.3
67.5°	260.2	282.1	305.8	324.0	336.6	363.4	432.5	501.7	432.5	363.4	336.6
70°	207.9	230.4	256.9	278.6	295.5	323.5	384.5	445.6	384.5	323.5	295.5
72.5°	169.6	188.9	210.5	231.6	252.4	281.0	333.4	385.8	333.4	281.0	252.4
75°	109.5	124.6	144.3	165.6	188.7	216.5	258.6	300.6	258.6	216.5	188.7
77.5°	81.5	88.9	98.8	113.7	133.5	156.0	186.6	217.3	186.6	156.0	133.5
80°	65.8	66.1	66.8	77.3	97.7	118.7	141.7	164.8	141.7	118.7	97.7
82.5°	52.2	51.5	50.5	56.2	68.4	81.8	98.9	116.0	98.9	81.8	68.4
85°	24.2	26.4	29.2	31.2	32.6	35.6	43.7	51.9	43.7	35.6	32.6
87.5°	7.6	7.5	7.5	8.3	9.7	10.8	10.9	11.2	10.9	10.7	9.8
90°	7.4	7.1	7.1	6.7	5.7	4.3	2.5	1.1	2.5	3.9	6.4
92.5°	8.9	8.8	8.2	7.6	6.2	6.2	6.2	3.9	6.7	9.6	13.7
95°	8.1	8.1	9.6	12.0	17.7	18.1	12.0	11.0	15.6	22.0	27.6
97.5°	22.0	26.2	32.2	33.3	31.5	23.5	22.5	21.0	28.6	34.9	44.0
100°	40.7	46.0	50.3	41.8	32.9	32.6	30.5	29.8	37.9	43.9	52.8
102.5°	63.7	65.3	50.6	45.8	43.7	42.2	39.0	38.5	46.7	55.0	62.4
105°	69.1	62.0	62.3	62.3	60.9	58.1	52.1	51.7	60.9	70.5	79.7
107.5°	81.3	82.3	84.2	83.7	82.1	74.5	67.4	65.8	74.1	85.6	95.7
110°	97.4	98.5	99.2	98.5	96.0	86.4	77.9	75.4	82.9	94.9	105.9



TEST NUMBER: P1427854

CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	113.0	113.8	115.3	113.2	109.0	98.0	88.4	84.8	92.2	104.6	115.8
115°	137.8	137.8	138.1	137.1	128.6	117.2	104.5	99.2	105.6	116.9	129.3
117.5°	162.2	162.6	161.2	158.3	148.5	135.3	121.0	112.5	117.5	129.5	142.3
120°	177.5	178.2	176.8	172.5	162.9	148.1	131.8	121.9	125.7	137.4	150.2
122.5°	193.3	193.2	191.5	186.7	175.4	160.0	144.0	131.8	133.4	144.2	156.7
125°	215.4	215.0	213.6	207.9	196.2	180.3	161.5	146.6	144.5	153.7	166.5
127.5°	236.3	235.6	233.4	226.5	214.5	199.1	178.5	161.7	156.9	162.7	174.4
130°	250.8	249.7	245.8	238.4	226.7	212.2	191.3	172.2	165.4	169.0	179.2
132.5°	264.7	261.6	258.3	250.3	239.5	224.4	203.2	183.2	173.9	175.5	183.5
135°	282.3	279.5	275.2	267.4	257.2	242.3	221.0	199.4	186.7	185.3	189.9
137.5°	297.8	294.9	290.0	283.3	273.0	259.7	239.3	216.5	200.4	195.7	197.4
140°	307.5	303.9	299.7	292.9	283.7	269.9	250.1	228.1	210.1	203.3	202.3
142.5°	315.4	312.7	308.2	302.0	293.9	280.1	260.9	239.2	220.0	211.3	208.8
145°	327.3	325.2	320.2	314.6	307.8	294.0	276.3	254.7	235.6	224.2	218.9
147.5°	337.4	335.7	331.8	325.1	319.4	306.2	290.0	270.9	251.3	237.3	230.4
150°	343.6	342.2	338.3	331.9	326.2	313.8	298.3	280.5	261.8	246.9	238.0
152.5°	349.5	348.1	343.7	337.3	332.5	320.9	306.8	289.9	270.8	256.0	246.8
155°	357.4	355.6	351.4	345.4	341.1	330.5	317.4	302.5	286.2	270.6	260.4
157.5°	363.6	361.4	357.5	352.3	347.8	338.0	326.6	313.8	299.5	284.7	274.2
160°	367.3	364.9	360.6	356.0	351.7	342.5	332.3	320.6	307.5	294.0	282.7
162.5°	369.9	367.7	362.6	358.5	354.9	346.5	336.8	326.2	314.6	302.8	292.3
165°	372.6	370.2	364.9	361.7	358.5	351.4	342.9	334.4	324.5	314.9	306.4
167.5°	372.9	370.8	365.5	362.4	360.0	353.9	347.1	340.6	332.8	325.3	318.2
170°	372.3	370.5	365.2	362.4	360.6	355.6	349.6	344.0	337.9	331.6	325.9
172.5°	370.3	368.5	363.5	361.2	360.3	355.9	351.0	346.8	341.6	336.9	332.4
175°	365.2	363.8	359.5	358.1	358.5	355.6	352.1	349.6	346.4	343.6	341.1
177.5°	357.8	356.9	353.8	353.8	354.9	353.2	352.1	351.0	349.5	348.7	347.8
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427854

CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1587.7	1576.1	1569.6	1564.4	1563.3	1562.2	1563.3	1564.4	1569.6	1576.1	1587.7
5°	1531.7	1500.1	1479.1	1463.0	1461.7	1460.3	1461.7	1463.0	1479.1	1500.1	1531.7
7.5°	1443.1	1406.6	1383.4	1365.7	1364.6	1363.6	1364.6	1365.7	1383.4	1406.6	1443.1
10°	1386.4	1349.1	1328.1	1312.3	1312.3	1312.3	1312.3	1312.3	1328.1	1349.1	1386.4
12.5°	1338.8	1304.2	1288.6	1277.7	1281.0	1284.2	1281.0	1277.7	1288.6	1304.2	1338.8
15°	1277.4	1252.3	1248.2	1247.0	1254.5	1261.9	1254.5	1247.0	1248.2	1252.3	1277.4
17.5°	1227.2	1213.8	1222.5	1231.1	1239.8	1248.5	1239.8	1231.1	1222.5	1213.8	1227.2
20°	1198.2	1190.7	1207.0	1221.2	1229.4	1237.5	1229.4	1221.2	1207.0	1190.7	1198.2
22.5°	1175.1	1172.0	1189.9	1204.4	1208.8	1213.1	1208.8	1204.4	1189.9	1172.0	1175.1
25°	1138.7	1143.1	1158.7	1169.9	1167.8	1165.8	1167.8	1169.9	1158.7	1143.1	1138.7
27.5°	1103.5	1112.3	1121.7	1129.2	1130.4	1131.6	1130.4	1129.2	1121.7	1112.3	1103.5
30°	1075.4	1086.6	1096.1	1105.4	1114.3	1123.1	1114.3	1105.4	1096.1	1086.6	1075.4
32.5°	1044.1	1065.1	1087.6	1109.5	1129.7	1149.9	1129.7	1109.5	1087.6	1065.1	1044.1
35°	999.8	1030.3	1067.6	1112.2	1178.7	1245.1	1178.7	1112.2	1067.6	1030.3	999.8
37.5°	953.2	985.3	1017.5	1046.9	1068.0	1089.2	1068.0	1046.9	1017.5	985.3	953.2
40°	920.6	960.6	1002.0	1020.8	972.0	923.2	972.0	1020.8	1002.0	960.6	920.6
42.5°	878.9	922.9	976.8	996.6	914.1	831.6	914.1	996.6	976.8	922.9	878.9
45°	817.4	841.8	856.0	852.0	793.0	734.0	793.0	852.0	856.0	841.8	817.4
47.5°	774.5	777.2	745.4	715.7	692.6	669.6	692.6	715.7	745.4	777.2	774.5
50°	752.3	748.2	697.3	655.5	640.5	625.6	640.5	655.5	697.3	748.2	752.3
52.5°	734.5	726.4	658.7	605.4	595.4	585.3	595.4	605.4	658.7	726.4	734.5
55°	713.6	702.8	609.9	539.7	537.6	535.6	537.6	539.7	609.9	702.8	713.6
57.5°	633.7	622.3	541.7	482.2	485.7	489.2	485.7	482.2	541.7	622.3	633.7
60°	555.3	544.4	488.8	446.1	442.0	437.9	442.0	446.1	488.8	544.4	555.3
62.5°	481.9	469.1	431.4	402.1	398.1	394.0	398.1	402.1	431.4	469.1	481.9
65°	394.9	376.6	345.4	322.0	322.0	322.0	322.0	322.0	345.4	376.6	394.9
67.5°	324.0	305.8	282.1	260.2	243.9	227.7	243.9	260.2	282.1	305.8	324.0
70°	278.6	256.9	230.4	207.9	197.0	186.2	197.0	207.9	230.4	256.9	278.6
72.5°	231.6	210.5	188.9	169.6	157.1	144.7	157.1	169.6	188.9	210.5	231.6
75°	165.6	144.3	124.6	109.5	108.2	106.8	108.2	109.5	124.6	144.3	165.6
77.5°	113.7	98.8	88.9	81.5	81.7	81.8	81.7	81.5	88.9	98.8	113.7
80°	77.3	66.8	66.1	65.8	66.5	67.1	66.5	65.8	66.1	66.8	77.3
82.5°	56.2	50.5	51.5	52.2	52.4	52.5	52.4	52.2	51.5	50.5	56.2
85°	31.2	29.2	26.4	24.2	23.6	22.9	23.6	24.2	26.4	29.2	31.2
87.5°	8.5	8.2	8.7	9.0	9.3	9.1	9.3	9.0	8.7	8.2	8.5
90°	8.1	10.6	13.1	14.5	15.9	15.2	15.9	14.5	13.1	10.6	8.1
92.5°	16.4	20.5	23.6	26.1	27.3	27.1	27.3	26.1	23.6	20.5	16.4
95°	32.9	37.9	42.9	46.4	48.5	47.8	48.5	46.4	42.9	37.9	32.9
97.5°	50.8	57.5	63.0	66.3	68.4	69.9	68.4	66.3	63.0	57.5	50.8
100°	62.7	69.1	75.4	79.3	82.9	84.3	82.9	79.3	75.4	69.1	62.7
102.5°	72.3	80.7	87.6	91.8	94.8	96.2	94.8	91.8	87.6	80.7	72.3
105°	88.2	97.1	104.5	109.8	113.0	114.1	113.0	109.8	104.5	97.1	88.2
107.5°	104.1	113.2	120.1	126.0	129.9	132.1	129.9	126.0	120.1	113.2	104.1
110°	116.5	124.0	131.4	136.7	140.6	142.0	140.6	136.7	131.4	124.0	116.5



TEST NUMBER: P1427854

CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	127.0	135.3	142.8	148.1	152.5	154.5	152.5	148.1	142.8	135.3	127.0
115°	141.7	152.7	159.4	164.4	167.5	169.3	167.5	164.4	159.4	152.7	141.7
117.5°	153.9	165.4	172.7	176.5	178.0	179.3	178.0	176.5	172.7	165.4	153.9
120°	161.5	172.2	180.7	185.6	187.4	188.1	187.4	185.6	180.7	172.2	161.5
122.5°	168.6	178.7	186.9	193.0	195.9	196.6	195.9	193.0	186.9	178.7	168.6
125°	178.5	188.1	196.6	202.6	205.8	207.6	205.8	202.6	196.6	188.1	178.5
127.5°	187.2	197.5	205.3	210.8	213.9	215.3	213.9	210.8	205.3	197.5	187.2
130°	192.0	202.6	210.4	216.4	219.3	220.7	219.3	216.4	210.4	202.6	192.0
132.5°	195.7	206.9	214.9	220.4	223.5	224.9	223.5	220.4	214.9	206.9	195.7
135°	200.1	211.8	220.3	225.6	228.5	229.9	228.5	225.6	220.3	211.8	200.1
137.5°	204.0	214.7	223.5	229.1	231.7	232.6	231.7	229.1	223.5	214.7	204.0
140°	206.9	216.1	224.9	230.2	233.1	233.4	233.1	230.2	224.9	216.1	206.9
142.5°	210.6	217.8	225.5	230.8	233.6	234.3	233.6	230.8	225.5	217.8	210.6
145°	217.1	221.4	226.7	231.7	234.1	234.9	234.1	231.7	226.7	221.4	217.1
147.5°	225.4	226.8	229.5	232.8	235.2	235.7	235.2	232.8	229.5	226.8	225.4
150°	231.7	231.3	232.4	234.5	236.6	236.3	236.6	234.5	232.4	231.3	231.7
152.5°	238.7	236.7	236.6	237.6	238.6	238.5	238.6	237.6	236.6	236.7	238.7
155°	250.8	246.9	244.8	244.1	244.1	243.7	244.1	244.1	244.8	246.9	250.8
157.5°	264.0	258.6	255.4	253.7	253.2	252.4	253.2	253.7	255.4	258.6	264.0
160°	273.1	267.1	263.9	261.1	260.0	258.9	260.0	261.1	263.9	267.1	273.1
162.5°	281.6	275.9	272.4	269.8	268.8	267.2	268.8	269.8	272.4	275.9	281.6
165°	295.4	289.4	285.5	283.4	282.0	280.5	282.0	283.4	285.5	289.4	295.4
167.5°	309.2	302.6	300.1	297.7	296.3	293.8	296.3	297.7	300.1	302.6	309.2
170°	317.7	311.7	310.3	308.2	305.7	302.9	305.7	308.2	310.3	311.7	317.7
172.5°	325.1	321.1	319.7	317.5	316.7	314.5	316.7	317.5	319.7	321.1	325.1
175°	335.8	332.6	332.6	332.3	331.2	329.1	331.2	332.3	332.6	332.6	335.8
177.5°	344.7	343.0	344.2	344.2	343.9	341.9	343.9	344.2	344.2	343.0	344.7
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427854

CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1603.7	1603.7	1603.7	1603.7
2.5°	1604.5	1615.3	1607.7	1600.1
5°	1573.7	1605.4	1606.1	1606.8
7.5°	1492.9	1535.4	1556.5	1577.5
10°	1440.0	1488.1	1520.0	1551.9
12.5°	1392.3	1445.1	1495.4	1545.7
15°	1323.5	1377.1	1453.0	1529.0
17.5°	1262.7	1309.8	1391.6	1473.4
20°	1229.4	1273.0	1353.7	1434.4
22.5°	1199.3	1237.8	1319.6	1401.4
25°	1145.5	1173.6	1265.8	1358.1
27.5°	1095.5	1113.6	1209.9	1306.2
30°	1062.5	1077.0	1173.3	1269.6
32.5°	1024.7	1035.0	1134.6	1234.2
35°	976.1	984.2	1088.0	1191.7
37.5°	921.0	924.7	1036.0	1147.2
40°	882.0	882.1	998.8	1115.4
42.5°	844.5	848.0	964.6	1081.3
45°	782.8	787.2	908.6	1030.0
47.5°	737.2	738.2	853.9	969.6
50°	709.5	704.8	814.0	923.2
52.5°	683.1	670.5	774.2	878.0
55°	642.4	613.9	713.6	813.3
57.5°	575.9	556.1	650.4	744.6
60°	521.4	518.8	610.4	701.9
62.5°	469.7	482.3	569.5	656.8
65°	400.3	424.2	503.6	582.9
67.5°	336.6	363.4	432.5	501.7
70°	295.5	323.5	384.5	445.6
72.5°	252.4	281.0	333.4	385.8
75°	188.7	216.5	258.6	300.6
77.5°	133.5	156.0	186.6	217.3
80°	97.7	118.7	141.7	164.8
82.5°	68.4	81.8	98.9	116.0
85°	32.6	35.6	43.7	51.9
87.5°	9.8	10.7	10.9	11.2
90°	6.4	3.9	2.5	1.1
92.5°	13.7	9.6	6.7	3.9
95°	27.6	22.0	15.6	11.0
97.5°	44.0	34.9	28.6	21.0
100°	52.8	43.9	37.9	29.8
102.5°	62.4	55.0	46.7	38.5
105°	79.7	70.5	60.9	51.7
107.5°	95.7	85.6	74.1	65.8
110°	105.9	94.9	82.9	75.4

TEST NUMBER: P1427854

CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	115.8	104.6	92.2	84.8
115°	129.3	116.9	105.6	99.2
117.5°	142.3	129.5	117.5	112.5
120°	150.2	137.4	125.7	121.9
122.5°	156.7	144.2	133.4	131.8
125°	166.5	153.7	144.5	146.6
127.5°	174.4	162.7	156.9	161.7
130°	179.2	169.0	165.4	172.2
132.5°	183.5	175.5	173.9	183.2
135°	189.9	185.3	186.7	199.4
137.5°	197.4	195.7	200.4	216.5
140°	202.3	203.3	210.1	228.1
142.5°	208.8	211.3	220.0	239.2
145°	218.9	224.2	235.6	254.7
147.5°	230.4	237.3	251.3	270.9
150°	238.0	246.9	261.8	280.5
152.5°	246.8	256.0	270.8	289.9
155°	260.4	270.6	286.2	302.5
157.5°	274.2	284.7	299.5	313.8
160°	282.7	294.0	307.5	320.6
162.5°	292.3	302.8	314.6	326.2
165°	306.4	314.9	324.5	334.4
167.5°	318.2	325.3	332.8	340.6
170°	325.9	331.6	337.9	344.0
172.5°	332.4	336.9	341.6	346.8
175°	341.1	343.6	346.4	349.6
177.5°	347.8	348.7	349.5	351.0
180°	350.7	350.7	350.7	350.7



TEST NUMBER: P1427854  
 CATALOG NUMBER: SQ2W-PH1-K-025U-075D-L940-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	20.43	21.59	21.11	22.29	23.10	19.26	20.42	19.94	21.12	21.93
	3H	22.63	23.67	23.32	24.38	25.23	20.33	21.38	21.02	22.08	22.93
	4H	23.45	24.44	24.17	25.16	26.02	20.59	21.57	21.30	22.29	23.15
	6H	23.94	24.85	24.66	25.57	26.45	20.75	21.65	21.47	22.38	23.26
	8H	24.10	24.96	24.83	25.71	26.59	20.81	21.68	21.55	22.43	23.30
	12H	24.17	24.99	24.91	25.73	26.64	20.83	21.66	21.58	22.40	23.30
4H	2H	20.90	21.89	21.62	22.60	23.46	19.98	20.96	20.69	21.68	22.54
	3H	23.18	24.00	23.91	24.75	25.63	21.24	22.06	21.96	22.81	23.69
	4H	24.07	24.81	24.81	25.56	26.47	21.54	22.28	22.29	23.04	23.95
	6H	24.64	25.29	25.41	26.07	26.98	21.76	22.40	22.52	23.18	24.10
	8H	24.85	25.45	25.62	26.23	27.16	21.85	22.45	22.62	23.23	24.16
	12H	24.95	25.49	25.74	26.29	27.22	21.89	22.43	22.68	23.23	24.16
8H	4H	24.11	24.71	24.88	25.49	26.42	21.79	22.39	22.56	23.17	24.10
	6H	24.75	25.25	25.55	26.07	27.00	22.07	22.57	22.87	23.39	24.32
	8H	25.02	25.46	25.83	26.28	27.23	22.22	22.66	23.03	23.48	24.43
	12H	25.17	25.55	25.98	26.36	27.37	22.30	22.69	23.11	23.50	24.50
12H	4H	24.08	24.62	24.87	25.42	26.35	21.80	22.34	22.59	23.14	24.08
	6H	24.73	25.18	25.54	25.99	26.94	22.11	22.55	22.92	23.37	24.32
	8H	25.02	25.41	25.83	26.22	27.22	22.29	22.68	23.10	23.48	24.49