

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: P1427915

Luminaire Tested: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427915
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-100U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

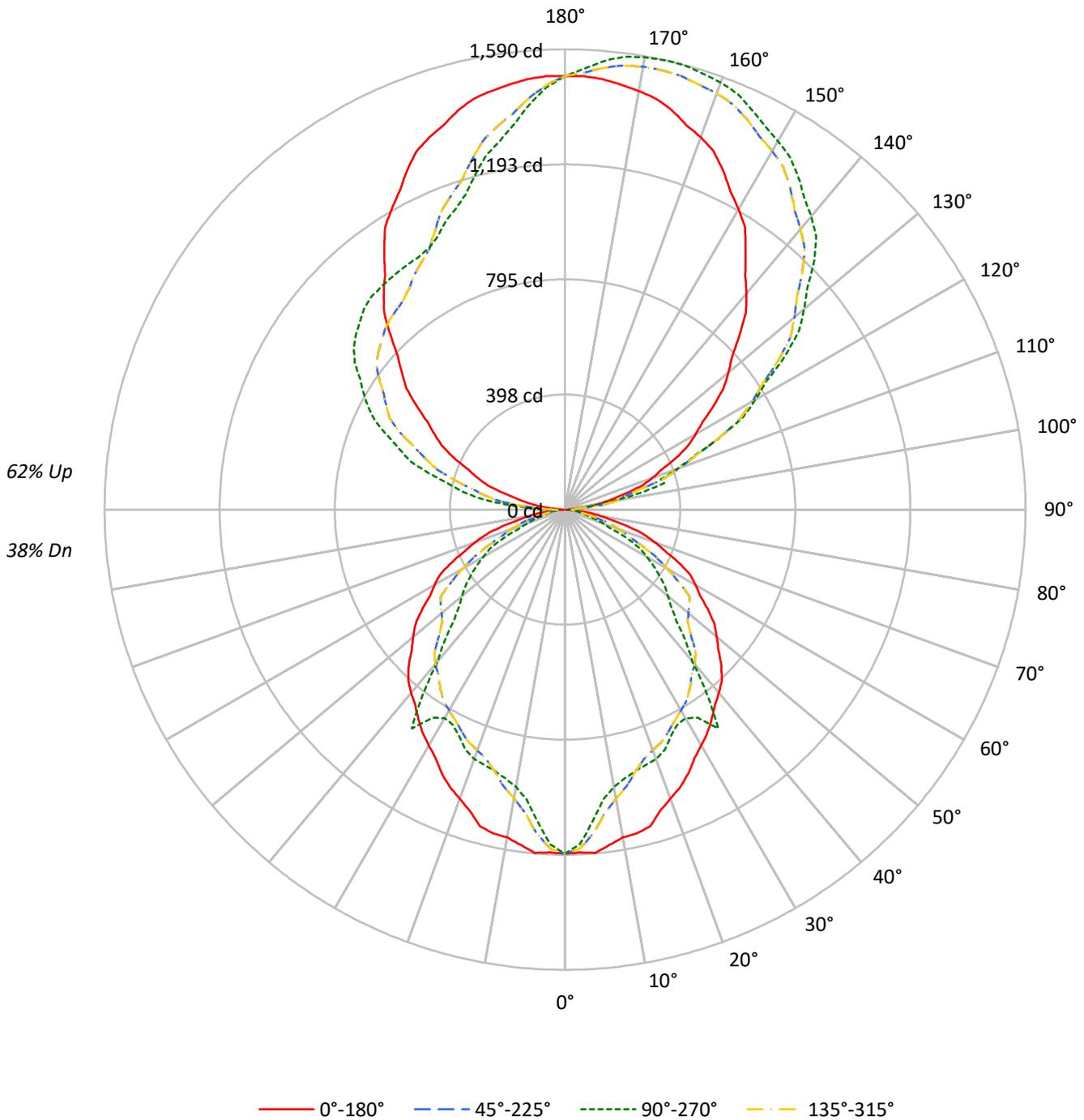
Lumens per Lamp: N/A
Luminaire Lumens: 7005.1 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19186	19186	19186	19186
5°	19296	17536	19296	17536
10°	18852	15942	18852	15942
15°	18937	15629	18937	15629
20°	18261	15756	18261	15756
25°	17927	15388	17927	15388
30°	17538	15515	17538	15515
35°	17404	18185	17404	18185
40°	17420	14416	17420	14416
45°	17426	12417	17426	12417
50°	17181	11645	17181	11645
55°	16963	11172	16963	11172
60°	16795	10478	16795	10478
65°	16500	9115	16500	9115
70°	15588	6510	15588	6510
75°	13892	4934	13892	4934
80°	11353	4621	11353	4621
85°	7114	3149	7114	3149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.5
10°-20°	275.0	3.9
20°-30°	403.2	5.8
30°-40°	488.3	7.0
40°-50°	480.1	6.9
50°-60°	417.7	6.0
60°-70°	290.5	4.1
70°-80°	137.8	2.0
80°-90°	36.6	0.5
90°-100°	119.2	1.7
100°-110°	347.5	5.0
110°-120°	567.1	8.1
120°-130°	719.6	10.3
130°-140°	770.0	11.0
140°-150°	719.0	10.3
150°-160°	591.6	8.4
160°-170°	396.8	5.7
170°-180°	140.9	2.0
0°-30°	782.8	11.2
0°-40°	1271.1	18.1
0°-60°	2168.9	31.0
0°-90°	2633.7	37.6
90°-120°	1033.7	14.8
90°-150°	3242.2	46.3
90°-180°	4371.0	62.4
0°-180°	7005.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1191	1082	1191	1082	1191	112
15°	1133	935	1133	935	1133	316
25°	1006	864	1006	864	1006	463
35°	883	923	883	923	883	553
45°	763	544	763	544	763	587
55°	603	397	603	397	603	538
65°	432	239	432	239	432	424
75°	223	79	223	79	223	236
85°	38	17	38	17	38	52
90°	4	33	4	65	4	5
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1185.6	1191.2	1196.9	1188.9	1176.5	1167.8	1163.0	1159.2	1158.4	1157.6	1158.4
5°	1190.6	1190.1	1189.6	1166.1	1134.9	1111.6	1096.0	1084.0	1083.0	1082.0	1083.0
7.5°	1168.9	1153.3	1137.7	1106.2	1069.3	1042.2	1025.0	1012.0	1011.2	1010.4	1011.2
10°	1149.9	1126.3	1102.6	1067.0	1027.3	999.6	984.0	972.4	972.4	972.4	972.4
12.5°	1145.4	1108.1	1070.8	1031.7	992.0	966.4	954.8	946.7	949.1	951.6	949.1
15°	1132.9	1076.6	1020.4	980.7	946.5	927.9	924.9	924.0	929.5	935.0	929.5
17.5°	1091.8	1031.2	970.6	935.7	909.3	899.4	905.8	912.2	918.7	925.1	918.7
20°	1062.8	1003.0	943.2	910.9	887.8	882.3	894.3	904.9	910.9	917.0	910.9
22.5°	1038.4	977.8	917.2	888.6	870.7	868.4	881.7	892.4	895.7	898.9	895.7
25°	1006.3	937.9	869.6	848.7	843.7	847.0	858.5	866.8	865.3	863.8	865.3
27.5°	967.8	896.5	825.1	811.7	817.7	824.1	831.2	836.7	837.6	838.5	837.6
30°	940.7	869.3	798.0	787.3	796.9	805.1	812.2	819.1	825.6	832.2	825.6
32.5°	914.5	840.7	766.9	759.3	773.6	789.2	805.9	822.1	837.1	852.1	837.1
35°	883.0	806.2	729.3	723.2	740.8	763.4	791.1	824.1	873.4	922.6	873.4
37.5°	850.0	767.6	685.2	682.5	706.3	730.1	753.9	775.7	791.4	807.1	791.4
40°	826.5	740.1	653.6	653.5	682.2	711.8	742.5	756.4	720.2	684.0	720.2
42.5°	801.2	714.7	628.3	625.8	651.2	683.9	723.8	738.4	677.3	616.2	677.3
45°	763.2	673.2	583.3	580.0	605.7	623.7	634.3	631.3	587.6	543.8	587.6
47.5°	718.4	632.7	547.0	546.3	573.9	575.9	552.3	530.3	513.2	496.1	513.2
50°	684.0	603.1	522.2	525.8	557.4	554.4	516.7	485.7	474.6	463.6	474.6
52.5°	650.6	573.7	496.8	506.2	544.2	538.2	488.1	448.6	441.2	433.7	441.2
55°	602.6	528.8	454.9	476.0	528.8	520.7	451.9	399.9	398.4	396.9	398.4
57.5°	551.8	481.9	412.1	426.7	469.5	461.1	401.4	357.3	359.9	362.5	359.9
60°	520.1	452.3	384.4	386.3	411.4	403.4	362.2	330.5	327.5	324.5	327.5
62.5°	486.6	422.0	357.4	348.0	357.1	347.6	319.7	298.0	294.9	291.9	294.9
65°	431.9	373.1	314.3	296.6	292.6	279.0	255.9	238.6	238.6	238.6	238.6
67.5°	371.8	320.5	269.2	249.4	240.1	226.6	209.0	192.8	180.8	168.7	180.8
70°	330.2	284.9	239.7	219.0	206.4	190.3	170.7	154.0	146.0	137.9	146.0
72.5°	285.8	247.0	208.2	187.0	171.6	156.0	140.0	125.7	116.4	107.2	116.4
75°	222.7	191.6	160.4	139.8	122.7	106.9	92.3	81.2	80.2	79.1	80.2
77.5°	161.0	138.3	115.6	98.9	84.2	73.2	65.9	60.4	60.5	60.6	60.5
80°	122.1	105.0	87.9	72.4	57.3	49.5	49.0	48.7	49.2	49.7	49.2
82.5°	85.9	73.3	60.6	50.7	41.6	37.4	38.1	38.7	38.8	38.9	38.8
85°	38.4	32.4	26.4	24.1	23.1	21.6	19.6	18.0	17.5	17.0	17.5
87.5°	9.0	9.9	11.0	11.2	10.9	10.6	10.6	10.9	11.2	11.2	11.2
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1159.2	1163.0	1167.8	1176.5	1188.9	1196.9	1191.2	1185.6	1191.2	1196.9	1188.9
5°	1084.0	1096.0	1111.6	1134.9	1166.1	1189.6	1190.1	1190.6	1190.1	1189.6	1166.1
7.5°	1012.0	1025.0	1042.2	1069.3	1106.2	1137.7	1153.3	1168.9	1153.3	1137.7	1106.2
10°	972.4	984.0	999.6	1027.3	1067.0	1102.6	1126.3	1149.9	1126.3	1102.6	1067.0
12.5°	946.7	954.8	966.4	992.0	1031.7	1070.8	1108.1	1145.4	1108.1	1070.8	1031.7
15°	924.0	924.9	927.9	946.5	980.7	1020.4	1076.6	1132.9	1076.6	1020.4	980.7
17.5°	912.2	905.8	899.4	909.3	935.7	970.6	1031.2	1091.8	1031.2	970.6	935.7
20°	904.9	894.3	882.3	887.8	910.9	943.2	1003.0	1062.8	1003.0	943.2	910.9
22.5°	892.4	881.7	868.4	870.7	888.6	917.2	977.8	1038.4	977.8	917.2	888.6
25°	866.8	858.5	847.0	843.7	848.7	869.6	937.9	1006.3	937.9	869.6	848.7
27.5°	836.7	831.2	824.1	817.7	811.7	825.1	896.5	967.8	896.5	825.1	811.7
30°	819.1	812.2	805.1	796.9	787.3	798.0	869.3	940.7	869.3	798.0	787.3
32.5°	822.1	805.9	789.2	773.6	759.3	766.9	840.7	914.5	840.7	766.9	759.3
35°	824.1	791.1	763.4	740.8	723.2	729.3	806.2	883.0	806.2	729.3	723.2
37.5°	775.7	753.9	730.1	706.3	682.5	685.2	767.6	850.0	767.6	685.2	682.5
40°	756.4	742.5	711.8	682.2	653.5	653.6	740.1	826.5	740.1	653.6	653.5
42.5°	738.4	723.8	683.9	651.2	625.8	628.3	714.7	801.2	714.7	628.3	625.8
45°	631.3	634.3	623.7	605.7	580.0	583.3	673.2	763.2	673.2	583.3	580.0
47.5°	530.3	552.3	575.9	573.9	546.3	547.0	632.7	718.4	632.7	547.0	546.3
50°	485.7	516.7	554.4	557.4	525.8	522.2	603.1	684.0	603.1	522.2	525.8
52.5°	448.6	488.1	538.2	544.2	506.2	496.8	573.7	650.6	573.7	496.8	506.2
55°	399.9	451.9	520.7	528.8	476.0	454.9	528.8	602.6	528.8	454.9	476.0
57.5°	357.3	401.4	461.1	469.5	426.7	412.1	481.9	551.8	481.9	412.1	426.7
60°	330.5	362.2	403.4	411.4	386.3	384.4	452.3	520.1	452.3	384.4	386.3
62.5°	298.0	319.7	347.6	357.1	348.0	357.4	422.0	486.6	422.0	357.4	348.0
65°	238.6	255.9	279.0	292.6	296.6	314.3	373.1	431.9	373.1	314.3	296.6
67.5°	192.8	209.0	226.6	240.1	249.4	269.2	320.5	371.8	320.5	269.2	249.4
70°	154.0	170.7	190.3	206.4	219.0	239.7	284.9	330.2	284.9	239.7	219.0
72.5°	125.7	140.0	156.0	171.6	187.0	208.2	247.0	285.8	247.0	208.2	187.0
75°	81.2	92.3	106.9	122.7	139.8	160.4	191.6	222.7	191.6	160.4	139.8
77.5°	60.4	65.9	73.2	84.2	98.9	115.6	138.3	161.0	138.3	115.6	98.9
80°	48.7	49.0	49.5	57.3	72.4	87.9	105.0	122.1	105.0	87.9	72.4
82.5°	38.7	38.1	37.4	41.6	50.7	60.6	73.3	85.9	73.3	60.6	50.7
85°	18.0	19.6	21.6	23.1	24.1	26.4	32.4	38.4	32.4	26.4	24.1
87.5°	10.9	10.6	10.6	10.9	11.2	11.0	9.9	9.0	9.9	10.7	11.8
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1427915

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427915

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1176.5	1167.8	1163.0	1159.2	1158.4	1157.6	1158.4	1159.2	1163.0	1167.8	1176.5
5°	1134.9	1111.6	1096.0	1084.0	1083.0	1082.0	1083.0	1084.0	1096.0	1111.6	1134.9
7.5°	1069.3	1042.2	1025.0	1012.0	1011.2	1010.4	1011.2	1012.0	1025.0	1042.2	1069.3
10°	1027.3	999.6	984.0	972.4	972.4	972.4	972.4	972.4	984.0	999.6	1027.3
12.5°	992.0	966.4	954.8	946.7	949.1	951.6	949.1	946.7	954.8	966.4	992.0
15°	946.5	927.9	924.9	924.0	929.5	935.0	929.5	924.0	924.9	927.9	946.5
17.5°	909.3	899.4	905.8	912.2	918.7	925.1	918.7	912.2	905.8	899.4	909.3
20°	887.8	882.3	894.3	904.9	910.9	917.0	910.9	904.9	894.3	882.3	887.8
22.5°	870.7	868.4	881.7	892.4	895.7	898.9	895.7	892.4	881.7	868.4	870.7
25°	843.7	847.0	858.5	866.8	865.3	863.8	865.3	866.8	858.5	847.0	843.7
27.5°	817.7	824.1	831.2	836.7	837.6	838.5	837.6	836.7	831.2	824.1	817.7
30°	796.9	805.1	812.2	819.1	825.6	832.2	825.6	819.1	812.2	805.1	796.9
32.5°	773.6	789.2	805.9	822.1	837.1	852.1	837.1	822.1	805.9	789.2	773.6
35°	740.8	763.4	791.1	824.1	873.4	922.6	873.4	824.1	791.1	763.4	740.8
37.5°	706.3	730.1	753.9	775.7	791.4	807.1	791.4	775.7	753.9	730.1	706.3
40°	682.2	711.8	742.5	756.4	720.2	684.0	720.2	756.4	742.5	711.8	682.2
42.5°	651.2	683.9	723.8	738.4	677.3	616.2	677.3	738.4	723.8	683.9	651.2
45°	605.7	623.7	634.3	631.3	587.6	543.8	587.6	631.3	634.3	623.7	605.7
47.5°	573.9	575.9	552.3	530.3	513.2	496.1	513.2	530.3	552.3	575.9	573.9
50°	557.4	554.4	516.7	485.7	474.6	463.6	474.6	485.7	516.7	554.4	557.4
52.5°	544.2	538.2	488.1	448.6	441.2	433.7	441.2	448.6	488.1	538.2	544.2
55°	528.8	520.7	451.9	399.9	398.4	396.9	398.4	399.9	451.9	520.7	528.8
57.5°	469.5	461.1	401.4	357.3	359.9	362.5	359.9	357.3	401.4	461.1	469.5
60°	411.4	403.4	362.2	330.5	327.5	324.5	327.5	330.5	362.2	403.4	411.4
62.5°	357.1	347.6	319.7	298.0	294.9	291.9	294.9	298.0	319.7	347.6	357.1
65°	292.6	279.0	255.9	238.6	238.6	238.6	238.6	238.6	255.9	279.0	292.6
67.5°	240.1	226.6	209.0	192.8	180.8	168.7	180.8	192.8	209.0	226.6	240.1
70°	206.4	190.3	170.7	154.0	146.0	137.9	146.0	154.0	170.7	190.3	206.4
72.5°	171.6	156.0	140.0	125.7	116.4	107.2	116.4	125.7	140.0	156.0	171.6
75°	122.7	106.9	92.3	81.2	80.2	79.1	80.2	81.2	92.3	106.9	122.7
77.5°	84.2	73.2	65.9	60.4	60.5	60.6	60.5	60.4	65.9	73.2	84.2
80°	57.3	49.5	49.0	48.7	49.2	49.7	49.2	48.7	49.0	49.5	57.3
82.5°	41.6	37.4	38.1	38.7	38.8	38.9	38.8	38.7	38.1	37.4	41.6
85°	23.1	21.6	19.6	18.0	17.5	17.0	17.5	18.0	19.6	21.6	23.1
87.5°	12.1	13.6	15.7	16.9	18.1	17.5	18.1	16.9	15.7	13.6	12.1
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1427915

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1427915

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1188.3	1188.3	1188.3	1188.3
2.5°	1188.9	1196.9	1191.2	1185.6
5°	1166.1	1189.6	1190.1	1190.6
7.5°	1106.2	1137.7	1153.3	1168.9
10°	1067.0	1102.6	1126.3	1149.9
12.5°	1031.7	1070.8	1108.1	1145.4
15°	980.7	1020.4	1076.6	1132.9
17.5°	935.7	970.6	1031.2	1091.8
20°	910.9	943.2	1003.0	1062.8
22.5°	888.6	917.2	977.8	1038.4
25°	848.7	869.6	937.9	1006.3
27.5°	811.7	825.1	896.5	967.8
30°	787.3	798.0	869.3	940.7
32.5°	759.3	766.9	840.7	914.5
35°	723.2	729.3	806.2	883.0
37.5°	682.5	685.2	767.6	850.0
40°	653.5	653.6	740.1	826.5
42.5°	625.8	628.3	714.7	801.2
45°	580.0	583.3	673.2	763.2
47.5°	546.3	547.0	632.7	718.4
50°	525.8	522.2	603.1	684.0
52.5°	506.2	496.8	573.7	650.6
55°	476.0	454.9	528.8	602.6
57.5°	426.7	412.1	481.9	551.8
60°	386.3	384.4	452.3	520.1
62.5°	348.0	357.4	422.0	486.6
65°	296.6	314.3	373.1	431.9
67.5°	249.4	269.2	320.5	371.8
70°	219.0	239.7	284.9	330.2
72.5°	187.0	208.2	247.0	285.8
75°	139.8	160.4	191.6	222.7
77.5°	98.9	115.6	138.3	161.0
80°	72.4	87.9	105.0	122.1
82.5°	50.7	60.6	73.3	85.9
85°	24.1	26.4	32.4	38.4
87.5°	11.8	10.7	9.9	9.0
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1427915

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2

TEST NUMBER: P1427915
 CATALOG NUMBER: SQ2W-PH1-K-100U-050D-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	15.87	16.62	16.92	17.68	19.12	14.69	15.45	15.75	16.51	17.95
	3H	18.03	18.71	19.10	19.78	21.23	15.74	16.41	16.80	17.48	18.94
	4H	18.84	19.48	19.92	20.55	22.02	15.98	16.62	17.06	17.69	19.15
	6H	19.30	19.89	20.39	20.97	22.44	16.11	16.70	17.20	17.78	19.25
	8H	19.45	20.01	20.54	21.10	22.57	16.17	16.73	17.26	17.82	19.29
	12H	19.51	20.04	20.60	21.12	22.62	16.17	16.71	17.27	17.79	19.28
4H	2H	16.29	16.93	17.37	18.00	19.46	15.36	16.01	16.45	17.08	18.54
	3H	18.53	19.06	19.62	20.16	21.64	16.58	17.12	17.68	18.22	19.69
	4H	19.40	19.89	20.50	20.97	22.47	16.87	17.36	17.97	18.45	19.95
	6H	19.95	20.37	21.06	21.48	22.97	17.06	17.48	18.17	18.59	20.09
	8H	20.15	20.54	21.26	21.65	23.15	17.15	17.54	18.26	18.65	20.15
	12H	20.23	20.58	21.35	21.70	23.21	17.17	17.52	18.29	18.64	20.15
8H	4H	19.41	19.80	20.52	20.91	22.41	17.09	17.48	18.20	18.59	20.09
	6H	20.04	20.36	21.16	21.50	23.01	17.36	17.68	18.48	18.82	20.33
	8H	20.30	20.58	21.43	21.71	23.23	17.50	17.78	18.64	18.91	20.43
	12H	20.42	20.67	21.56	21.80	23.36	17.56	17.81	18.70	18.93	20.49
12H	4H	19.36	19.71	20.48	20.83	22.34	17.08	17.44	18.21	18.55	20.07
	6H	20.01	20.29	21.15	21.42	22.94	17.39	17.67	18.52	18.80	20.32
	8H	20.28	20.53	21.42	21.65	23.21	17.55	17.80	18.68	18.92	20.48