

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: P1427917

Luminaire Tested: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427917
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-L840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

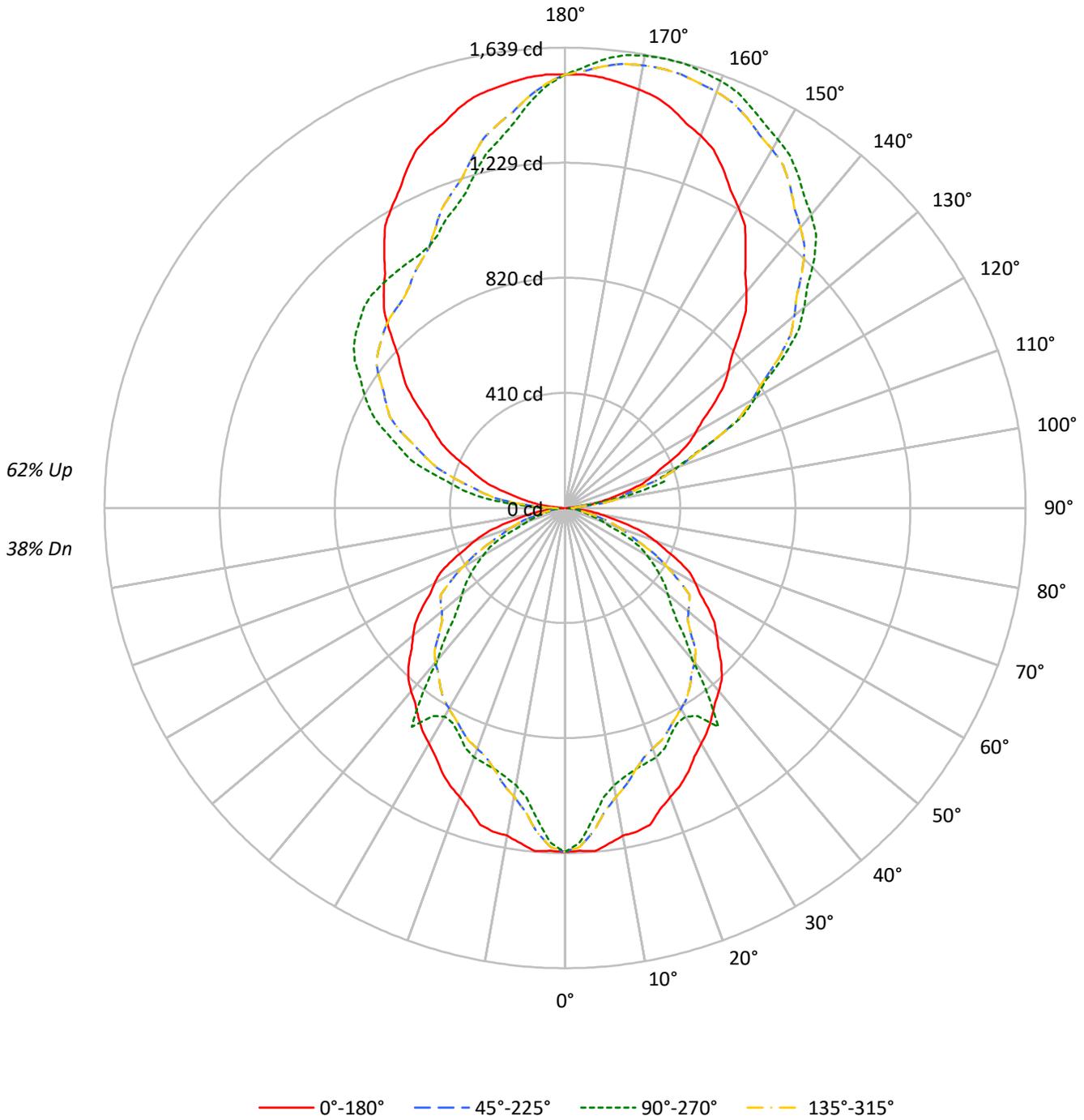
Lumens per Lamp: N/A
Luminaire Lumens: 7220.4 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	19775	19775	19775	19775
5°	19890	18076	19890	18076
10°	19431	16432	19431	16432
15°	19518	16110	19518	16110
20°	18823	16238	18823	16238
25°	18477	15862	18477	15862
30°	18077	15990	18077	15990
35°	17940	18744	17940	18744
40°	17955	14861	17955	14861
45°	17963	12800	17963	12800
50°	17711	12001	17711	12001
55°	17486	11516	17486	11516
60°	17311	10801	17311	10801
65°	17008	9394	17008	9394
70°	16064	6713	16064	6713
75°	14323	5090	14323	5090
80°	11706	4770	11706	4770
85°	7336	3242	7336	3242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.5
10°-20°	283.5	3.9
20°-30°	415.6	5.8
30°-40°	503.3	7.0
40°-50°	494.9	6.9
50°-60°	430.5	6.0
60°-70°	299.4	4.1
70°-80°	142.0	2.0
80°-90°	37.7	0.5
90°-100°	122.8	1.7
100°-110°	358.2	5.0
110°-120°	584.5	8.1
120°-130°	741.7	10.3
130°-140°	793.6	11.0
140°-150°	741.1	10.3
150°-160°	609.8	8.4
160°-170°	409.0	5.7
170°-180°	145.2	2.0
0°-30°	806.9	11.2
0°-40°	1310.2	18.1
0°-60°	2235.5	31.0
0°-90°	2714.6	37.6
90°-120°	1065.5	14.8
90°-150°	3341.8	46.3
90°-180°	4506.0	62.4
0°-180°	7220.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1225	1225	1225	1225	1225	
5°	1227	1115	1227	1115	1227	115
15°	1168	964	1168	964	1168	326
25°	1037	890	1037	890	1037	477
35°	910	951	910	951	910	570
45°	787	561	787	561	787	605
55°	621	409	621	409	621	555
65°	445	246	445	246	445	437
75°	230	82	230	82	230	243
85°	40	18	40	18	40	53
90°	5	34	5	67	5	5
95°	48	36	48	210	48	58
105°	228	365	228	502	228	242
115°	436	605	436	745	436	430
125°	645	959	645	913	645	577
135°	878	1255	878	1012	878	678
145°	1121	1446	1121	1034	1121	701
155°	1331	1571	1331	1072	1331	612
165°	1472	1638	1472	1235	1472	414
175°	1538	1604	1538	1448	1538	146
180°	1543	1543	1543	1543	1543	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1222.0	1227.9	1233.7	1225.5	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0
5°	1227.2	1226.7	1226.1	1201.9	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3
7.5°	1204.8	1188.7	1172.7	1140.2	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2
10°	1185.2	1160.9	1136.5	1099.8	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3
12.5°	1180.6	1142.1	1103.7	1063.4	1022.5	996.1	984.2	975.8	978.3	980.8	978.3
15°	1167.7	1109.7	1051.7	1010.8	975.6	956.4	953.3	952.4	958.1	963.8	958.1
17.5°	1125.3	1062.9	1000.4	964.4	937.3	927.0	933.6	940.3	946.9	953.5	946.9
20°	1095.5	1033.8	972.2	938.9	915.1	909.4	921.8	932.7	938.9	945.1	938.9
22.5°	1070.3	1007.8	945.4	915.9	897.5	895.1	908.8	919.9	923.2	926.5	923.2
25°	1037.2	966.8	896.3	874.8	869.7	873.0	884.9	893.5	891.9	890.4	891.9
27.5°	997.6	924.0	850.5	836.7	842.8	849.5	856.7	862.4	863.3	864.3	863.3
30°	969.6	896.1	822.5	811.5	821.4	829.9	837.2	844.3	851.0	857.7	851.0
32.5°	942.6	866.5	790.5	782.6	797.4	813.4	830.6	847.4	862.8	878.3	862.8
35°	910.2	830.9	751.7	745.5	763.6	786.9	815.4	849.5	900.2	951.0	900.2
37.5°	876.2	791.2	706.3	703.4	728.0	752.5	777.1	799.5	815.7	831.9	815.7
40°	851.9	762.8	673.7	673.6	703.1	733.7	765.3	779.7	742.4	705.1	742.4
42.5°	825.8	736.7	647.6	645.0	671.2	704.9	746.0	761.1	698.1	635.1	698.1
45°	786.7	693.9	601.2	597.9	624.3	642.9	653.8	650.7	605.6	560.6	605.6
47.5°	740.5	652.1	563.8	563.0	591.5	593.6	569.3	546.6	529.0	511.4	529.0
50°	705.1	621.7	538.3	541.9	574.5	571.4	532.6	500.6	489.2	477.8	489.2
52.5°	670.6	591.3	512.1	521.7	561.0	554.8	503.1	462.4	454.7	447.1	454.7
55°	621.2	545.0	468.9	490.6	545.0	536.7	465.8	412.2	410.6	409.1	410.6
57.5°	568.7	496.7	424.7	439.8	484.0	475.3	413.7	368.2	370.9	373.6	370.9
60°	536.1	466.2	396.2	398.2	424.1	415.8	373.3	340.7	337.6	334.5	337.6
62.5°	501.6	435.0	368.4	358.7	368.0	358.3	329.5	307.1	304.0	300.9	304.0
65°	445.2	384.6	324.0	305.7	301.6	287.6	263.8	245.9	245.9	245.9	245.9
67.5°	383.2	330.4	277.5	257.1	247.5	233.6	215.4	198.7	186.3	173.9	186.3
70°	340.3	293.7	247.1	225.7	212.8	196.2	176.0	158.8	150.5	142.2	150.5
72.5°	294.6	254.6	214.6	192.8	176.9	160.7	144.3	129.5	120.0	110.5	120.0
75°	229.6	197.5	165.4	144.1	126.5	110.2	95.2	83.7	82.6	81.6	82.6
77.5°	166.0	142.5	119.1	101.9	86.8	75.5	67.9	62.3	62.4	62.5	62.4
80°	125.9	108.3	90.6	74.6	59.0	51.0	50.5	50.2	50.8	51.3	50.8
82.5°	88.6	75.5	62.5	52.2	42.9	38.6	39.3	39.9	40.0	40.1	40.0
85°	39.6	33.4	27.2	24.9	23.8	22.3	20.2	18.5	18.0	17.5	18.0
87.5°	9.3	10.2	11.3	11.5	11.2	10.9	10.9	11.2	11.5	11.5	11.5
90°	4.7	10.9	18.7	24.9	29.6	31.2	31.2	32.7	34.3	34.3	34.3
92.5°	17.1	27.1	27.4	27.4	33.4	36.2	38.7	39.0	40.5	40.5	40.5
95°	48.3	53.0	79.5	77.9	53.0	42.1	35.9	35.9	35.9	35.9	35.9
97.5°	92.3	99.1	103.5	138.7	146.5	141.5	115.3	97.0	86.7	82.0	86.7
100°	130.9	134.1	143.4	145.0	183.9	221.3	202.6	179.3	171.5	166.8	171.5
102.5°	169.6	171.5	185.8	192.4	201.4	222.6	287.4	280.3	275.0	274.0	275.0
105°	227.6	229.1	255.6	268.1	274.3	274.3	272.8	304.0	353.8	364.8	353.8
107.5°	289.6	296.8	328.0	361.3	368.5	370.4	362.3	357.6	355.7	357.0	355.7
110°	332.0	342.9	380.3	422.4	433.3	436.5	433.3	428.7	425.5	425.5	425.5



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1194.8	1198.7	1203.7	1212.6	1225.5	1233.7	1227.9	1222.0	1227.9	1233.7	1225.5
5°	1117.4	1129.7	1145.7	1169.8	1201.9	1226.1	1226.7	1227.2	1226.7	1226.1	1201.9
7.5°	1043.1	1056.6	1074.3	1102.1	1140.2	1172.7	1188.7	1204.8	1188.7	1172.7	1140.2
10°	1002.3	1014.3	1030.4	1058.8	1099.8	1136.5	1160.9	1185.2	1160.9	1136.5	1099.8
12.5°	975.8	984.2	996.1	1022.5	1063.4	1103.7	1142.1	1180.6	1142.1	1103.7	1063.4
15°	952.4	953.3	956.4	975.6	1010.8	1051.7	1109.7	1167.7	1109.7	1051.7	1010.8
17.5°	940.3	933.6	927.0	937.3	964.4	1000.4	1062.9	1125.3	1062.9	1000.4	964.4
20°	932.7	921.8	909.4	915.1	938.9	972.2	1033.8	1095.5	1033.8	972.2	938.9
22.5°	919.9	908.8	895.1	897.5	915.9	945.4	1007.8	1070.3	1007.8	945.4	915.9
25°	893.5	884.9	873.0	869.7	874.8	896.3	966.8	1037.2	966.8	896.3	874.8
27.5°	862.4	856.7	849.5	842.8	836.7	850.5	924.0	997.6	924.0	850.5	836.7
30°	844.3	837.2	829.9	821.4	811.5	822.5	896.1	969.6	896.1	822.5	811.5
32.5°	847.4	830.6	813.4	797.4	782.6	790.5	866.5	942.6	866.5	790.5	782.6
35°	849.5	815.4	786.9	763.6	745.5	751.7	830.9	910.2	830.9	751.7	745.5
37.5°	799.5	777.1	752.5	728.0	703.4	706.3	791.2	876.2	791.2	706.3	703.4
40°	779.7	765.3	733.7	703.1	673.6	673.7	762.8	851.9	762.8	673.7	673.6
42.5°	761.1	746.0	704.9	671.2	645.0	647.6	736.7	825.8	736.7	647.6	645.0
45°	650.7	653.8	642.9	624.3	597.9	601.2	693.9	786.7	693.9	601.2	597.9
47.5°	546.6	569.3	593.6	591.5	563.0	563.8	652.1	740.5	652.1	563.8	563.0
50°	500.6	532.6	571.4	574.5	541.9	538.3	621.7	705.1	621.7	538.3	541.9
52.5°	462.4	503.1	554.8	561.0	521.7	512.1	591.3	670.6	591.3	512.1	521.7
55°	412.2	465.8	536.7	545.0	490.6	468.9	545.0	621.2	545.0	468.9	490.6
57.5°	368.2	413.7	475.3	484.0	439.8	424.7	496.7	568.7	496.7	424.7	439.8
60°	340.7	373.3	415.8	424.1	398.2	396.2	466.2	536.1	466.2	396.2	398.2
62.5°	307.1	329.5	358.3	368.0	358.7	368.4	435.0	501.6	435.0	368.4	358.7
65°	245.9	263.8	287.6	301.6	305.7	324.0	384.6	445.2	384.6	324.0	305.7
67.5°	198.7	215.4	233.6	247.5	257.1	277.5	330.4	383.2	330.4	277.5	257.1
70°	158.8	176.0	196.2	212.8	225.7	247.1	293.7	340.3	293.7	247.1	225.7
72.5°	129.5	144.3	160.7	176.9	192.8	214.6	254.6	294.6	254.6	214.6	192.8
75°	83.7	95.2	110.2	126.5	144.1	165.4	197.5	229.6	197.5	165.4	144.1
77.5°	62.3	67.9	75.5	86.8	101.9	119.1	142.5	166.0	142.5	119.1	101.9
80°	50.2	50.5	51.0	59.0	74.6	90.6	108.3	125.9	108.3	90.6	74.6
82.5°	39.9	39.3	38.6	42.9	52.2	62.5	75.5	88.6	75.5	62.5	52.2
85°	18.5	20.2	22.3	23.8	24.9	27.2	33.4	39.6	33.4	27.2	24.9
87.5°	11.2	10.9	10.9	11.2	11.5	11.3	10.2	9.3	10.2	11.0	12.1
90°	32.7	31.2	31.2	29.6	24.9	18.7	10.9	4.7	10.9	17.1	28.1
92.5°	39.0	38.7	36.2	33.4	27.4	27.4	27.1	17.1	29.6	42.1	60.5
95°	35.9	35.9	42.1	53.0	77.9	79.5	53.0	48.3	68.6	96.6	121.6
97.5°	97.0	115.3	141.5	146.5	138.7	103.5	99.1	92.3	125.6	153.4	193.6
100°	179.3	202.6	221.3	183.9	145.0	143.4	134.1	130.9	166.8	193.3	232.3
102.5°	280.3	287.4	222.6	201.4	192.4	185.8	171.5	169.6	205.4	241.9	274.7
105°	304.0	272.8	274.3	274.3	268.1	255.6	229.1	227.6	268.1	310.2	350.7
107.5°	357.6	362.3	370.4	368.5	361.3	328.0	296.8	289.6	326.1	376.6	421.2
110°	428.7	433.3	436.5	433.3	422.4	380.3	342.9	332.0	364.8	417.8	466.1



TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0	1194.8	1198.7	1203.7	1212.6
5°	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3	1117.4	1129.7	1145.7	1169.8
7.5°	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2	1043.1	1056.6	1074.3	1102.1
10°	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3	1002.3	1014.3	1030.4	1058.8
12.5°	1022.5	996.1	984.2	975.8	978.3	980.8	978.3	975.8	984.2	996.1	1022.5
15°	975.6	956.4	953.3	952.4	958.1	963.8	958.1	952.4	953.3	956.4	975.6
17.5°	937.3	927.0	933.6	940.3	946.9	953.5	946.9	940.3	933.6	927.0	937.3
20°	915.1	909.4	921.8	932.7	938.9	945.1	938.9	932.7	921.8	909.4	915.1
22.5°	897.5	895.1	908.8	919.9	923.2	926.5	923.2	919.9	908.8	895.1	897.5
25°	869.7	873.0	884.9	893.5	891.9	890.4	891.9	893.5	884.9	873.0	869.7
27.5°	842.8	849.5	856.7	862.4	863.3	864.3	863.3	862.4	856.7	849.5	842.8
30°	821.4	829.9	837.2	844.3	851.0	857.7	851.0	844.3	837.2	829.9	821.4
32.5°	797.4	813.4	830.6	847.4	862.8	878.3	862.8	847.4	830.6	813.4	797.4
35°	763.6	786.9	815.4	849.5	900.2	951.0	900.2	849.5	815.4	786.9	763.6
37.5°	728.0	752.5	777.1	799.5	815.7	831.9	815.7	799.5	777.1	752.5	728.0
40°	703.1	733.7	765.3	779.7	742.4	705.1	742.4	779.7	765.3	733.7	703.1
42.5°	671.2	704.9	746.0	761.1	698.1	635.1	698.1	761.1	746.0	704.9	671.2
45°	624.3	642.9	653.8	650.7	605.6	560.6	605.6	650.7	653.8	642.9	624.3
47.5°	591.5	593.6	569.3	546.6	529.0	511.4	529.0	546.6	569.3	593.6	591.5
50°	574.5	571.4	532.6	500.6	489.2	477.8	489.2	500.6	532.6	571.4	574.5
52.5°	561.0	554.8	503.1	462.4	454.7	447.1	454.7	462.4	503.1	554.8	561.0
55°	545.0	536.7	465.8	412.2	410.6	409.1	410.6	412.2	465.8	536.7	545.0
57.5°	484.0	475.3	413.7	368.2	370.9	373.6	370.9	368.2	413.7	475.3	484.0
60°	424.1	415.8	373.3	340.7	337.6	334.5	337.6	340.7	373.3	415.8	424.1
62.5°	368.0	358.3	329.5	307.1	304.0	300.9	304.0	307.1	329.5	358.3	368.0
65°	301.6	287.6	263.8	245.9	245.9	245.9	245.9	245.9	263.8	287.6	301.6
67.5°	247.5	233.6	215.4	198.7	186.3	173.9	186.3	198.7	215.4	233.6	247.5
70°	212.8	196.2	176.0	158.8	150.5	142.2	150.5	158.8	176.0	196.2	212.8
72.5°	176.9	160.7	144.3	129.5	120.0	110.5	120.0	129.5	144.3	160.7	176.9
75°	126.5	110.2	95.2	83.7	82.6	81.6	82.6	83.7	95.2	110.2	126.5
77.5°	86.8	75.5	67.9	62.3	62.4	62.5	62.4	62.3	67.9	75.5	86.8
80°	59.0	51.0	50.5	50.2	50.8	51.3	50.8	50.2	50.5	51.0	59.0
82.5°	42.9	38.6	39.3	39.9	40.0	40.1	40.0	39.9	39.3	38.6	42.9
85°	23.8	22.3	20.2	18.5	18.0	17.5	18.0	18.5	20.2	22.3	23.8
87.5°	12.5	14.0	16.2	17.4	18.7	18.1	18.7	17.4	16.2	14.0	12.5
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	63.9	57.7	46.8	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	115.0	103.8	90.4	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	204.2	188.6	166.8	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	291.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	349.2	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	404.0	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	483.2	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	554.3	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	601.7	578.3	545.6	512.8



TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1224.8	1224.8	1224.8	1224.8
2.5°	1225.5	1233.7	1227.9	1222.0
5°	1201.9	1226.1	1226.7	1227.2
7.5°	1140.2	1172.7	1188.7	1204.8
10°	1099.8	1136.5	1160.9	1185.2
12.5°	1063.4	1103.7	1142.1	1180.6
15°	1010.8	1051.7	1109.7	1167.7
17.5°	964.4	1000.4	1062.9	1125.3
20°	938.9	972.2	1033.8	1095.5
22.5°	915.9	945.4	1007.8	1070.3
25°	874.8	896.3	966.8	1037.2
27.5°	836.7	850.5	924.0	997.6
30°	811.5	822.5	896.1	969.6
32.5°	782.6	790.5	866.5	942.6
35°	745.5	751.7	830.9	910.2
37.5°	703.4	706.3	791.2	876.2
40°	673.6	673.7	762.8	851.9
42.5°	645.0	647.6	736.7	825.8
45°	597.9	601.2	693.9	786.7
47.5°	563.0	563.8	652.1	740.5
50°	541.9	538.3	621.7	705.1
52.5°	521.7	512.1	591.3	670.6
55°	490.6	468.9	545.0	621.2
57.5°	439.8	424.7	496.7	568.7
60°	398.2	396.2	466.2	536.1
62.5°	358.7	368.4	435.0	501.6
65°	305.7	324.0	384.6	445.2
67.5°	257.1	277.5	330.4	383.2
70°	225.7	247.1	293.7	340.3
72.5°	192.8	214.6	254.6	294.6
75°	144.1	165.4	197.5	229.6
77.5°	101.9	119.1	142.5	166.0
80°	74.6	90.6	108.3	125.9
82.5°	52.2	62.5	75.5	88.6
85°	24.9	27.2	33.4	39.6
87.5°	12.1	11.0	10.2	9.3
90°	28.1	17.1	10.9	4.7
92.5°	60.5	42.1	29.6	17.1
95°	121.6	96.6	68.6	48.3
97.5°	193.6	153.4	125.6	92.3
100°	232.3	193.3	166.8	130.9
102.5°	274.7	241.9	205.4	169.6
105°	350.7	310.2	268.1	227.6
107.5°	421.2	376.6	326.1	289.6
110°	466.1	417.8	364.8	332.0



TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1427917

CATALOG NUMBER: SQ2W-PH1-K-100U-050D-L840-UNV-STD-W-WM-4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.97	16.73	17.03	17.79	19.22	14.80	15.55	15.86	16.61	18.05
	3H	18.14	18.81	19.20	19.88	21.34	15.84	16.52	16.91	17.59	19.04
	4H	18.95	19.59	20.02	20.66	22.12	16.08	16.72	17.16	17.79	19.26
	6H	19.41	20.00	20.50	21.07	22.55	16.22	16.81	17.30	17.88	19.36
	8H	19.56	20.12	20.65	21.21	22.68	16.27	16.83	17.36	17.92	19.39
	12H	19.61	20.14	20.71	21.23	22.72	16.28	16.81	17.38	17.90	19.39
4H	2H	16.39	17.03	17.48	18.10	19.57	15.47	16.11	16.55	17.18	18.64
	3H	18.63	19.17	19.73	20.27	21.74	16.69	17.22	17.78	18.32	19.80
	4H	19.50	19.99	20.60	21.08	22.58	16.98	17.47	18.07	18.55	20.05
	6H	20.06	20.48	21.16	21.59	23.08	17.17	17.59	18.28	18.70	20.19
	8H	20.26	20.65	21.36	21.75	23.26	17.26	17.65	18.36	18.75	20.26
	12H	20.33	20.69	21.46	21.81	23.32	17.28	17.63	18.40	18.75	20.26
8H	4H	19.52	19.91	20.62	21.01	22.52	17.20	17.59	18.30	18.69	20.20
	6H	20.14	20.46	21.27	21.61	23.11	17.46	17.78	18.59	18.93	20.43
	8H	20.40	20.69	21.54	21.81	23.34	17.61	17.89	18.74	19.02	20.54
	12H	20.53	20.78	21.67	21.90	23.46	17.67	17.91	18.80	19.04	20.60
12H	4H	19.46	19.82	20.59	20.93	22.45	17.19	17.54	18.31	18.66	20.17
	6H	20.12	20.40	21.25	21.53	23.05	17.49	17.78	18.63	18.90	20.43
	8H	20.38	20.63	21.52	21.76	23.32	17.65	17.90	18.79	19.02	20.58