

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: P1427860

Luminaire Tested: SQ2W-PH1-K-025U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427860
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-100D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

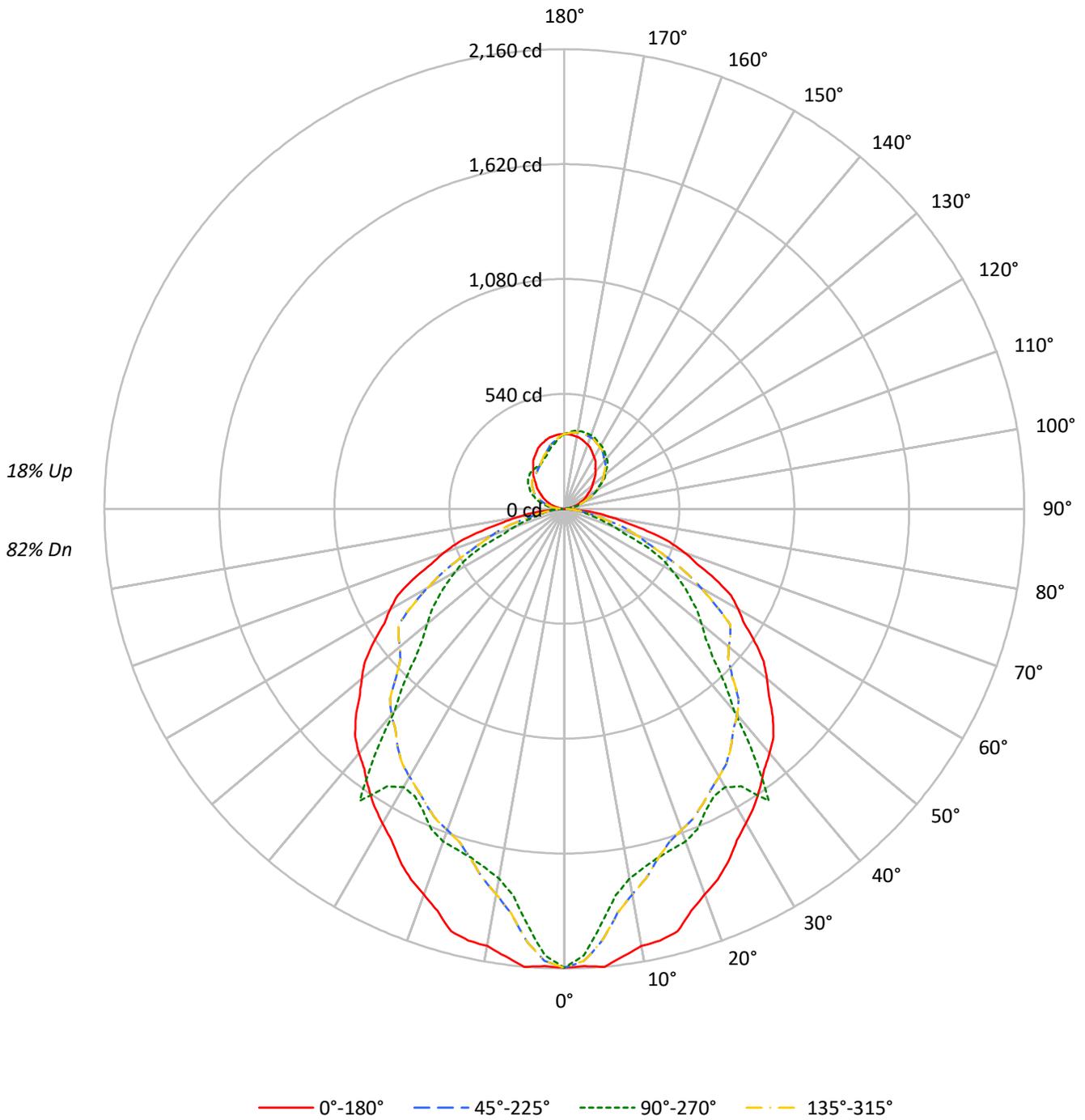
Lumens per Lamp: N/A
Luminaire Lumens: 5793.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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				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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	105	101	97	94	101	97	94	90	90	87	84	83	81	79	77	75	73	70
2	96	89	82	77	92	85	79	75	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	63	70	64	59	65	60	56	60	56	53	50
4	81	69	61	55	77	67	59	53	62	56	51	58	53	48	54	49	46	43
5	74	62	54	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	69	56	47	41	66	54	46	40	51	44	39	47	41	37	44	39	35	33
7	64	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	32	29
8	59	46	38	33	57	45	37	32	42	35	31	39	34	30	37	32	28	26
9	55	42	35	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	26	50	38	31	26	36	29	25	34	28	24	32	27	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	34813	34813	34813	34813
5°	35012	31821	35012	31821
10°	34207	28927	34207	28927
15°	34361	28361	34361	28361
20°	33135	28589	33135	28589
25°	32528	27923	32528	27923
30°	31822	28151	31822	28151
35°	31581	32997	31581	32997
40°	31608	26160	31608	26160
45°	31619	22532	31619	22532
50°	31176	21129	31176	21129
55°	30781	20270	30781	20270
60°	30473	19013	30473	19013
65°	29940	16538	29940	16538
70°	28281	11816	28281	11816
75°	25215	8958	25215	8958
80°	20604	8396	20604	8396
85°	12930	5706	12930	5706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	3.3
10°-20°	499.1	8.6
20°-30°	731.7	12.6
30°-40°	886.0	15.3
40°-50°	871.2	15.0
50°-60°	757.8	13.1
60°-70°	527.1	9.1
70°-80°	250.0	4.3
80°-90°	56.6	1.0
90°-100°	27.9	0.5
100°-110°	81.4	1.4
110°-120°	132.8	2.3
120°-130°	168.5	2.9
130°-140°	180.3	3.1
140°-150°	168.4	2.9
150°-160°	138.6	2.4
160°-170°	92.9	1.6
170°-180°	33.0	0.6
0°-30°	1420.5	24.5
0°-40°	2306.5	39.8
0°-60°	3935.5	67.9
0°-90°	4769.1	82.3
90°-120°	242.1	4.2
90°-150°	759.4	13.1
90°-180°	1024.0	17.7
0°-180°	5793.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2156	2156	2156	2156	2156	
5°	2160	1963	2160	1963	2160	203
15°	2056	1697	2056	1697	2056	573
25°	1826	1567	1826	1567	1826	840
35°	1602	1674	1602	1674	1602	1004
45°	1385	987	1385	987	1385	1064
55°	1094	720	1094	720	1094	977
65°	784	433	784	433	784	770
75°	404	144	404	144	404	428
85°	70	31	70	31	70	93
90°	1	8	1	15	1	3
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°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2151.3	2161.5	2171.7	2157.3	2134.7	2119.0	2110.3	2103.4	2101.9	2100.4	2101.9
5°	2160.3	2159.4	2158.5	2115.9	2059.4	2017.0	1988.7	1967.0	1965.2	1963.4	1965.2
7.5°	2121.0	2092.7	2064.4	2007.2	1940.2	1891.2	1860.0	1836.2	1834.8	1833.3	1834.8
10°	2086.5	2043.6	2000.8	1936.0	1864.0	1813.8	1785.6	1764.4	1764.4	1764.4	1764.4
12.5°	2078.3	2010.6	1943.0	1872.0	1800.0	1753.5	1732.5	1717.9	1722.3	1726.6	1722.3
15°	2055.7	1953.6	1851.5	1779.4	1717.4	1683.7	1678.2	1676.6	1686.6	1696.7	1686.6
17.5°	1981.0	1871.1	1761.1	1697.8	1650.0	1631.9	1643.6	1655.3	1667.0	1678.6	1667.0
20°	1928.5	1820.0	1711.5	1652.9	1611.0	1600.9	1622.8	1642.0	1652.9	1663.9	1652.9
22.5°	1884.2	1774.2	1664.3	1612.4	1580.0	1575.8	1599.8	1619.4	1625.2	1631.0	1625.2
25°	1825.9	1701.9	1577.9	1540.1	1531.0	1536.9	1557.9	1572.9	1570.2	1567.4	1570.2
27.5°	1756.2	1626.7	1497.2	1472.9	1483.7	1495.4	1508.2	1518.2	1519.8	1521.5	1519.8
30°	1706.9	1577.5	1448.0	1428.6	1445.9	1461.0	1473.7	1486.3	1498.1	1510.0	1498.1
32.5°	1659.3	1525.5	1391.6	1377.7	1403.8	1432.0	1462.2	1491.7	1518.9	1546.1	1518.9
35°	1602.3	1462.8	1323.3	1312.3	1344.3	1385.3	1435.4	1495.4	1584.8	1674.1	1584.8
37.5°	1542.4	1392.9	1243.3	1238.4	1281.6	1324.8	1368.0	1407.5	1436.0	1464.4	1436.0
40°	1499.7	1342.9	1186.1	1185.8	1237.8	1291.6	1347.2	1372.5	1306.9	1241.2	1306.9
42.5°	1453.8	1296.9	1140.1	1135.5	1181.6	1240.9	1313.3	1339.9	1229.0	1118.1	1229.0
45°	1384.8	1221.6	1058.4	1052.5	1099.0	1131.8	1151.0	1145.5	1066.2	986.8	1066.2
47.5°	1303.6	1148.0	992.5	991.2	1041.4	1045.0	1002.1	962.2	931.2	900.2	931.2
50°	1241.2	1094.4	947.6	954.0	1011.4	1006.0	937.6	881.3	861.2	841.2	861.2
52.5°	1180.5	1041.0	901.5	918.4	987.6	976.6	885.6	814.0	800.5	787.0	800.5
55°	1093.5	959.5	825.4	863.7	959.5	944.9	820.0	725.6	722.8	720.1	722.8
57.5°	1001.2	874.4	747.7	774.3	852.0	836.6	728.3	648.3	653.0	657.7	653.0
60°	943.7	820.6	697.5	701.0	746.6	732.0	657.2	599.8	594.3	588.8	594.3
62.5°	883.0	765.8	648.5	631.5	647.9	630.8	580.1	540.7	535.2	529.7	535.2
65°	783.7	677.0	570.3	538.2	530.9	506.3	464.3	432.9	432.9	432.9	432.9
67.5°	674.6	581.6	488.6	452.6	435.6	411.2	379.3	349.9	328.0	306.1	328.0
70°	599.1	517.0	434.9	397.3	374.5	345.4	309.8	279.5	264.9	250.3	264.9
72.5°	518.6	448.3	377.9	339.3	311.4	283.0	254.0	228.0	211.3	194.5	211.3
75°	404.2	347.6	291.1	253.7	222.7	194.0	167.5	147.3	145.4	143.6	145.4
77.5°	292.1	250.9	209.7	179.4	152.8	132.9	119.5	109.6	109.8	110.0	109.8
80°	221.6	190.6	159.6	131.3	103.9	89.8	88.9	88.4	89.4	90.3	89.4
82.5°	155.9	132.9	110.0	91.9	75.5	67.9	69.2	70.2	70.4	70.6	70.4
85°	69.8	58.8	47.9	43.8	41.9	39.2	35.6	32.6	31.7	30.8	31.7
87.5°	15.0	14.5	14.2	12.6	10.6	9.6	9.6	9.7	9.8	9.8	9.8
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°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2103.4	2110.3	2119.0	2134.7	2157.3	2171.7	2161.5	2151.3	2161.5	2171.7	2157.3
5°	1967.0	1988.7	2017.0	2059.4	2115.9	2158.5	2159.4	2160.3	2159.4	2158.5	2115.9
7.5°	1836.2	1860.0	1891.2	1940.2	2007.2	2064.4	2092.7	2121.0	2092.7	2064.4	2007.2
10°	1764.4	1785.6	1813.8	1864.0	1936.0	2000.8	2043.6	2086.5	2043.6	2000.8	1936.0
12.5°	1717.9	1732.5	1753.5	1800.0	1872.0	1943.0	2010.6	2078.3	2010.6	1943.0	1872.0
15°	1676.6	1678.2	1683.7	1717.4	1779.4	1851.5	1953.6	2055.7	1953.6	1851.5	1779.4
17.5°	1655.3	1643.6	1631.9	1650.0	1697.8	1761.1	1871.1	1981.0	1871.1	1761.1	1697.8
20°	1642.0	1622.8	1600.9	1611.0	1652.9	1711.5	1820.0	1928.5	1820.0	1711.5	1652.9
22.5°	1619.4	1599.8	1575.8	1580.0	1612.4	1664.3	1774.2	1884.2	1774.2	1664.3	1612.4
25°	1572.9	1557.9	1536.9	1531.0	1540.1	1577.9	1701.9	1825.9	1701.9	1577.9	1540.1
27.5°	1518.2	1508.2	1495.4	1483.7	1472.9	1497.2	1626.7	1756.2	1626.7	1497.2	1472.9
30°	1486.3	1473.7	1461.0	1445.9	1428.6	1448.0	1577.5	1706.9	1577.5	1448.0	1428.6
32.5°	1491.7	1462.2	1432.0	1403.8	1377.7	1391.6	1525.5	1659.3	1525.5	1391.6	1377.7
35°	1495.4	1435.4	1385.3	1344.3	1312.3	1323.3	1462.8	1602.3	1462.8	1323.3	1312.3
37.5°	1407.5	1368.0	1324.8	1281.6	1238.4	1243.3	1392.9	1542.4	1392.9	1243.3	1238.4
40°	1372.5	1347.2	1291.6	1237.8	1185.8	1186.1	1342.9	1499.7	1342.9	1186.1	1185.8
42.5°	1339.9	1313.3	1240.9	1181.6	1135.5	1140.1	1296.9	1453.8	1296.9	1140.1	1135.5
45°	1145.5	1151.0	1131.8	1099.0	1052.5	1058.4	1221.6	1384.8	1221.6	1058.4	1052.5
47.5°	962.2	1002.1	1045.0	1041.4	991.2	992.5	1148.0	1303.6	1148.0	992.5	991.2
50°	881.3	937.6	1006.0	1011.4	954.0	947.6	1094.4	1241.2	1094.4	947.6	954.0
52.5°	814.0	885.6	976.6	987.6	918.4	901.5	1041.0	1180.5	1041.0	901.5	918.4
55°	725.6	820.0	944.9	959.5	863.7	825.4	959.5	1093.5	959.5	825.4	863.7
57.5°	648.3	728.3	836.6	852.0	774.3	747.7	874.4	1001.2	874.4	747.7	774.3
60°	599.8	657.2	732.0	746.6	701.0	697.5	820.6	943.7	820.6	697.5	701.0
62.5°	540.7	580.1	630.8	647.9	631.5	648.5	765.8	883.0	765.8	648.5	631.5
65°	432.9	464.3	506.3	530.9	538.2	570.3	677.0	783.7	677.0	570.3	538.2
67.5°	349.9	379.3	411.2	435.6	452.6	488.6	581.6	674.6	581.6	488.6	452.6
70°	279.5	309.8	345.4	374.5	397.3	434.9	517.0	599.1	517.0	434.9	397.3
72.5°	228.0	254.0	283.0	311.4	339.3	377.9	448.3	518.6	448.3	377.9	339.3
75°	147.3	167.5	194.0	222.7	253.7	291.1	347.6	404.2	347.6	291.1	253.7
77.5°	109.6	119.5	132.9	152.8	179.4	209.7	250.9	292.1	250.9	209.7	179.4
80°	88.4	88.9	89.8	103.9	131.3	159.6	190.6	221.6	190.6	159.6	131.3
82.5°	70.2	69.2	67.9	75.5	91.9	110.0	132.9	155.9	132.9	110.0	91.9
85°	32.6	35.6	39.2	41.9	43.8	47.9	58.8	69.8	58.8	47.9	43.8
87.5°	9.7	9.6	9.6	10.6	12.6	14.2	14.5	15.0	14.5	14.1	12.8
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: P1427860

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-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: P1427860

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2134.7	2119.0	2110.3	2103.4	2101.9	2100.4	2101.9	2103.4	2110.3	2119.0	2134.7
5°	2059.4	2017.0	1988.7	1967.0	1965.2	1963.4	1965.2	1967.0	1988.7	2017.0	2059.4
7.5°	1940.2	1891.2	1860.0	1836.2	1834.8	1833.3	1834.8	1836.2	1860.0	1891.2	1940.2
10°	1864.0	1813.8	1785.6	1764.4	1764.4	1764.4	1764.4	1764.4	1785.6	1813.8	1864.0
12.5°	1800.0	1753.5	1732.5	1717.9	1722.3	1726.6	1722.3	1717.9	1732.5	1753.5	1800.0
15°	1717.4	1683.7	1678.2	1676.6	1686.6	1696.7	1686.6	1676.6	1678.2	1683.7	1717.4
17.5°	1650.0	1631.9	1643.6	1655.3	1667.0	1678.6	1667.0	1655.3	1643.6	1631.9	1650.0
20°	1611.0	1600.9	1622.8	1642.0	1652.9	1663.9	1652.9	1642.0	1622.8	1600.9	1611.0
22.5°	1580.0	1575.8	1599.8	1619.4	1625.2	1631.0	1625.2	1619.4	1599.8	1575.8	1580.0
25°	1531.0	1536.9	1557.9	1572.9	1570.2	1567.4	1570.2	1572.9	1557.9	1536.9	1531.0
27.5°	1483.7	1495.4	1508.2	1518.2	1519.8	1521.5	1519.8	1518.2	1508.2	1495.4	1483.7
30°	1445.9	1461.0	1473.7	1486.3	1498.1	1510.0	1498.1	1486.3	1473.7	1461.0	1445.9
32.5°	1403.8	1432.0	1462.2	1491.7	1518.9	1546.1	1518.9	1491.7	1462.2	1432.0	1403.8
35°	1344.3	1385.3	1435.4	1495.4	1584.8	1674.1	1584.8	1495.4	1435.4	1385.3	1344.3
37.5°	1281.6	1324.8	1368.0	1407.5	1436.0	1464.4	1436.0	1407.5	1368.0	1324.8	1281.6
40°	1237.8	1291.6	1347.2	1372.5	1306.9	1241.2	1306.9	1372.5	1347.2	1291.6	1237.8
42.5°	1181.6	1240.9	1313.3	1339.9	1229.0	1118.1	1229.0	1339.9	1313.3	1240.9	1181.6
45°	1099.0	1131.8	1151.0	1145.5	1066.2	986.8	1066.2	1145.5	1151.0	1131.8	1099.0
47.5°	1041.4	1045.0	1002.1	962.2	931.2	900.2	931.2	962.2	1002.1	1045.0	1041.4
50°	1011.4	1006.0	937.6	881.3	861.2	841.2	861.2	881.3	937.6	1006.0	1011.4
52.5°	987.6	976.6	885.6	814.0	800.5	787.0	800.5	814.0	885.6	976.6	987.6
55°	959.5	944.9	820.0	725.6	722.8	720.1	722.8	725.6	820.0	944.9	959.5
57.5°	852.0	836.6	728.3	648.3	653.0	657.7	653.0	648.3	728.3	836.6	852.0
60°	746.6	732.0	657.2	599.8	594.3	588.8	594.3	599.8	657.2	732.0	746.6
62.5°	647.9	630.8	580.1	540.7	535.2	529.7	535.2	540.7	580.1	630.8	647.9
65°	530.9	506.3	464.3	432.9	432.9	432.9	432.9	432.9	464.3	506.3	530.9
67.5°	435.6	411.2	379.3	349.9	328.0	306.1	328.0	349.9	379.3	411.2	435.6
70°	374.5	345.4	309.8	279.5	264.9	250.3	264.9	279.5	309.8	345.4	374.5
72.5°	311.4	283.0	254.0	228.0	211.3	194.5	211.3	228.0	254.0	283.0	311.4
75°	222.7	194.0	167.5	147.3	145.4	143.6	145.4	147.3	167.5	194.0	222.7
77.5°	152.8	132.9	119.5	109.6	109.8	110.0	109.8	109.6	119.5	132.9	152.8
80°	103.9	89.8	88.9	88.4	89.4	90.3	89.4	88.4	88.9	89.8	103.9
82.5°	75.5	67.9	69.2	70.2	70.4	70.6	70.4	70.2	69.2	67.9	75.5
85°	41.9	39.2	35.6	32.6	31.7	30.8	31.7	32.6	35.6	39.2	41.9
87.5°	10.9	10.3	10.8	11.1	11.4	11.3	11.4	11.1	10.8	10.3	10.9
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: P1427860

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-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: P1427860

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2156.2	2156.2	2156.2	2156.2
2.5°	2157.3	2171.7	2161.5	2151.3
5°	2115.9	2158.5	2159.4	2160.3
7.5°	2007.2	2064.4	2092.7	2121.0
10°	1936.0	2000.8	2043.6	2086.5
12.5°	1872.0	1943.0	2010.6	2078.3
15°	1779.4	1851.5	1953.6	2055.7
17.5°	1697.8	1761.1	1871.1	1981.0
20°	1652.9	1711.5	1820.0	1928.5
22.5°	1612.4	1664.3	1774.2	1884.2
25°	1540.1	1577.9	1701.9	1825.9
27.5°	1472.9	1497.2	1626.7	1756.2
30°	1428.6	1448.0	1577.5	1706.9
32.5°	1377.7	1391.6	1525.5	1659.3
35°	1312.3	1323.3	1462.8	1602.3
37.5°	1238.4	1243.3	1392.9	1542.4
40°	1185.8	1186.1	1342.9	1499.7
42.5°	1135.5	1140.1	1296.9	1453.8
45°	1052.5	1058.4	1221.6	1384.8
47.5°	991.2	992.5	1148.0	1303.6
50°	954.0	947.6	1094.4	1241.2
52.5°	918.4	901.5	1041.0	1180.5
55°	863.7	825.4	959.5	1093.5
57.5°	774.3	747.7	874.4	1001.2
60°	701.0	697.5	820.6	943.7
62.5°	631.5	648.5	765.8	883.0
65°	538.2	570.3	677.0	783.7
67.5°	452.6	488.6	581.6	674.6
70°	397.3	434.9	517.0	599.1
72.5°	339.3	377.9	448.3	518.6
75°	253.7	291.1	347.6	404.2
77.5°	179.4	209.7	250.9	292.1
80°	131.3	159.6	190.6	221.6
82.5°	91.9	110.0	132.9	155.9
85°	43.8	47.9	58.8	69.8
87.5°	12.8	14.1	14.5	15.0
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: P1427860

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-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: P1427860
 CATALOG NUMBER: SQ2W-PH1-K-025U-100D-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	21.80	23.04	22.42	23.67	24.39	20.63	21.87	21.25	22.50	23.22
	3H	24.00	25.12	24.64	25.76	26.51	21.71	22.82	22.34	23.46	24.22
	4H	24.84	25.88	25.49	26.54	27.31	21.97	23.02	22.63	23.67	24.44
	6H	25.32	26.29	25.99	26.95	27.74	22.13	23.10	22.80	23.76	24.55
	8H	25.48	26.40	26.16	27.09	27.88	22.20	23.12	22.88	23.81	24.59
	12H	25.56	26.43	26.24	27.11	27.93	22.22	23.10	22.91	23.78	24.60
4H	2H	22.28	23.33	22.94	23.98	24.75	21.36	22.41	22.02	23.06	23.83
	3H	24.57	25.44	25.24	26.13	26.92	22.62	23.49	23.29	24.19	24.98
	4H	25.46	26.25	26.15	26.94	27.76	22.93	23.72	23.62	24.42	25.24
	6H	26.04	26.72	26.75	27.44	28.27	23.15	23.83	23.86	24.56	25.39
	8H	26.25	26.89	26.96	27.61	28.45	23.25	23.89	23.96	24.61	25.45
	12H	26.35	26.92	27.08	27.67	28.51	23.29	23.86	24.02	24.61	25.45
8H	4H	25.51	26.15	26.22	26.87	27.71	23.19	23.83	23.90	24.55	25.39
	6H	26.15	26.68	26.90	27.44	28.29	23.47	24.00	24.22	24.76	25.61
	8H	26.42	26.89	27.18	27.65	28.51	23.62	24.09	24.38	24.86	25.72
	12H	26.57	26.98	27.33	27.74	28.66	23.70	24.12	24.46	24.87	25.79
12H	4H	25.48	26.05	26.21	26.80	27.64	23.20	23.78	23.94	24.52	25.37
	6H	26.13	26.60	26.89	27.37	28.23	23.51	23.98	24.27	24.75	25.61
	8H	26.42	26.84	27.18	27.59	28.51	23.69	24.10	24.45	24.86	25.78