

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: P1427881

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

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427881
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-050U-100D-L840-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 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

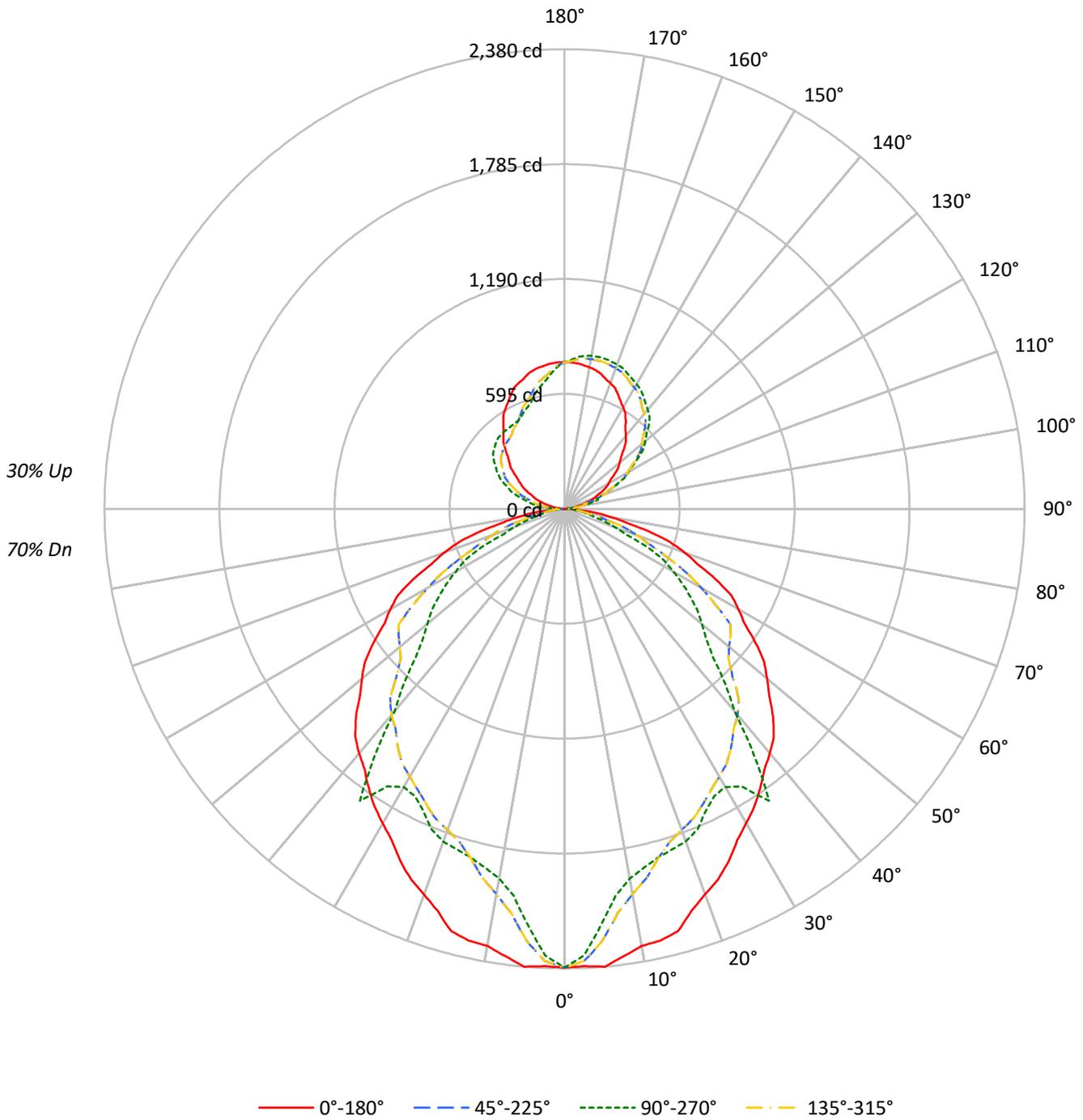
Lumens per Lamp: N/A
Luminaire Lumens: 7470.9 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.5
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

TEST NUMBER: P1427881

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

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	103	98	94	91	97	93	90	87	84	81	79	75	73	71	67	65	64	60
2	94	86	80	75	88	82	76	72	74	69	65	66	63	60	59	56	54	51
3	86	76	68	62	81	72	65	60	65	60	55	58	54	51	52	49	46	43
4	78	67	59	53	74	64	57	51	58	52	47	52	47	44	47	43	40	37
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35	32
6	67	54	46	40	63	52	44	38	47	41	36	43	37	33	38	34	31	28
7	62	49	41	35	58	47	39	34	43	36	32	39	33	30	35	31	27	25
8	57	45	37	31	54	43	35	30	39	33	28	36	30	26	32	28	25	22
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	22	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38357	38357	38357	38357
5°	38576	35059	38576	35059
10°	37688	31870	37688	31870
15°	37858	31246	37858	31246
20°	36506	31498	36506	31498
25°	35838	30764	35838	30764
30°	35061	31015	35061	31015
35°	34794	36355	34794	36355
40°	34825	28822	34825	28822
45°	34839	24824	34839	24824
50°	34349	23279	34349	23279
55°	33914	22333	33914	22333
60°	33576	20947	33576	20947
65°	32989	18219	32989	18219
70°	31156	13020	31156	13020
75°	27779	9869	27779	9869
80°	22696	9251	22696	9251
85°	14246	6280	14246	6280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 34839 cd/sqm



TEST NUMBER: P1427881

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	2.8
10°-20°	549.8	7.4
20°-30°	806.1	10.8
30°-40°	976.1	13.1
40°-50°	959.9	12.8
50°-60°	834.9	11.2
60°-70°	580.7	7.8
70°-80°	275.4	3.7
80°-90°	63.9	0.9
90°-100°	60.4	0.8
100°-110°	176.1	2.4
110°-120°	287.3	3.8
120°-130°	364.6	4.9
130°-140°	390.1	5.2
140°-150°	364.3	4.9
150°-160°	299.8	4.0
160°-170°	201.0	2.7
170°-180°	71.4	1.0
0°-30°	1565.0	20.9
0°-40°	2541.1	34.0
0°-60°	4336.0	58.0
0°-90°	5255.9	70.4
90°-120°	523.8	7.0
90°-150°	1642.8	22.0
90°-180°	2215.0	29.6
0°-180°	7470.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2376	2376	2376	2376	2376	
5°	2380	2163	2380	2163	2380	224
15°	2265	1869	2265	1869	2265	631
25°	2012	1727	2012	1727	2012	925
35°	1765	1844	1765	1844	1765	1106
45°	1526	1087	1526	1087	1526	1173
55°	1205	793	1205	793	1205	1076
65°	864	477	864	477	864	848
75°	445	158	445	158	445	472
85°	77	34	77	34	77	103
90°	2	17	2	33	2	4
95°	24	18	24	103	24	29
105°	112	179	112	247	112	119
115°	215	297	215	366	215	211
125°	317	471	317	449	317	284
135°	431	617	431	497	431	333
145°	551	711	551	508	551	345
155°	654	772	654	527	654	301
165°	723	805	723	607	723	204
175°	756	788	756	712	756	72
180°	759	759	759	759	759	



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2370.2	2381.5	2392.7	2376.9	2351.9	2334.7	2325.0	2317.4	2315.8	2314.2	2315.8
5°	2380.2	2379.2	2378.2	2331.2	2268.9	2222.2	2191.1	2167.2	2165.2	2163.2	2165.2
7.5°	2336.8	2305.6	2274.5	2211.4	2137.7	2083.6	2049.3	2023.1	2021.5	2019.9	2021.5
10°	2298.8	2251.6	2204.4	2133.0	2053.7	1998.4	1967.3	1943.9	1943.9	1943.9	1943.9
12.5°	2289.8	2215.2	2140.7	2062.5	1983.1	1931.9	1908.8	1892.7	1897.5	1902.3	1897.5
15°	2264.9	2152.4	2039.9	1960.5	1892.2	1855.0	1849.0	1847.2	1858.3	1869.3	1858.3
17.5°	2182.6	2061.5	1940.3	1870.5	1817.9	1798.0	1810.9	1823.7	1836.6	1849.4	1836.6
20°	2124.7	2005.2	1885.7	1821.1	1774.9	1763.8	1788.0	1809.1	1821.1	1833.2	1821.1
22.5°	2075.9	1954.8	1833.6	1776.5	1740.7	1736.1	1762.6	1784.1	1790.6	1797.0	1790.6
25°	2011.7	1875.1	1738.5	1696.8	1686.7	1693.3	1716.4	1733.0	1729.9	1726.9	1729.9
27.5°	1934.9	1792.2	1649.6	1622.8	1634.7	1647.6	1661.7	1672.7	1674.5	1676.3	1674.5
30°	1880.6	1738.0	1595.3	1574.0	1593.1	1609.6	1623.7	1637.5	1650.6	1663.6	1650.6
32.5°	1828.2	1680.7	1533.2	1517.9	1546.6	1577.7	1611.0	1643.5	1673.5	1703.4	1673.5
35°	1765.3	1611.6	1457.9	1445.9	1481.0	1526.3	1581.5	1647.6	1746.0	1844.5	1746.0
37.5°	1699.3	1534.6	1369.8	1364.4	1412.0	1459.6	1507.2	1550.8	1582.1	1613.5	1582.1
40°	1652.3	1479.5	1306.7	1306.5	1363.8	1423.0	1484.3	1512.2	1439.9	1367.5	1439.9
42.5°	1601.7	1428.9	1256.1	1251.0	1301.9	1367.2	1446.9	1476.2	1354.1	1231.9	1354.1
45°	1525.8	1345.9	1166.1	1159.6	1210.8	1247.0	1268.1	1262.0	1174.6	1087.2	1174.6
47.5°	1436.2	1264.9	1093.5	1092.1	1147.3	1151.3	1104.1	1060.2	1026.0	991.9	1026.0
50°	1367.5	1205.8	1044.0	1051.1	1114.4	1108.3	1033.0	971.0	948.9	926.8	948.9
52.5°	1300.6	1146.9	993.2	1011.9	1088.0	1076.0	975.7	896.8	881.9	867.1	881.9
55°	1204.8	1057.1	909.4	951.6	1057.1	1041.0	903.4	799.4	796.4	793.4	796.4
57.5°	1103.1	963.4	823.8	853.1	938.7	921.8	802.4	714.2	719.5	724.7	719.5
60°	1039.8	904.1	768.5	772.3	822.5	806.5	724.1	660.8	654.8	648.7	654.8
62.5°	972.9	843.7	714.5	695.7	713.8	694.9	639.1	595.7	589.7	583.6	589.7
65°	863.5	745.9	628.4	593.0	584.9	557.8	511.6	476.9	476.9	476.9	476.9
67.5°	743.2	640.7	538.3	498.6	480.0	453.0	417.9	385.5	361.4	337.2	361.4
70°	660.0	569.6	479.2	437.8	412.6	380.5	341.3	307.9	291.8	275.8	291.8
72.5°	571.4	493.9	416.3	373.9	343.1	311.8	279.8	251.3	232.8	214.3	232.8
75°	445.3	383.0	320.7	279.5	245.4	213.7	184.6	162.2	160.2	158.2	160.2
77.5°	321.9	276.5	231.1	197.7	168.4	146.4	131.7	120.8	121.0	121.2	121.0
80°	244.1	210.0	175.8	144.7	114.5	99.0	97.9	97.4	98.5	99.5	98.5
82.5°	171.8	146.5	121.2	101.3	83.2	74.8	76.2	77.4	77.6	77.8	77.6
85°	76.9	64.8	52.7	48.2	46.2	43.2	39.2	35.9	34.9	33.9	34.9
87.5°	16.7	16.5	16.5	15.1	13.2	12.1	12.1	12.3	12.4	12.4	12.4
90°	2.3	5.4	9.2	12.3	14.6	15.3	15.3	16.1	16.9	16.9	16.9
92.5°	8.4	13.3	13.5	13.5	16.4	17.8	19.0	19.2	19.9	19.9	19.9
95°	23.8	26.1	39.1	38.3	26.1	20.7	17.6	17.6	17.6	17.6	17.6
97.5°	45.4	48.7	50.9	68.2	72.0	69.6	56.7	47.7	42.6	40.3	42.6
100°	64.4	65.9	70.5	71.3	90.4	108.8	99.6	88.1	84.3	82.0	84.3
102.5°	83.4	84.3	91.3	94.6	99.0	109.4	141.3	137.8	135.2	134.7	135.2
105°	111.9	112.6	125.7	131.8	134.9	134.9	134.1	149.4	173.9	179.3	173.9
107.5°	142.4	145.9	161.2	177.6	181.1	182.1	178.1	175.8	174.9	175.5	174.9
110°	163.2	168.6	187.0	207.7	213.0	214.6	213.0	210.7	209.2	209.2	209.2



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	183.4	191.3	212.1	235.9	244.9	249.5	246.1	244.4	242.9	244.1	242.9
115°	214.6	226.1	253.6	278.2	296.6	298.8	298.1	298.1	297.3	297.3	297.3
117.5°	243.4	261.8	292.7	321.2	342.5	348.7	351.7	350.8	349.9	351.4	349.9
120°	263.6	285.1	320.3	352.5	373.2	382.4	385.4	383.9	385.4	383.9	385.4
122.5°	285.1	311.4	346.1	379.5	403.8	414.3	417.9	418.2	418.5	417.6	418.5
125°	317.2	349.4	390.0	424.5	449.8	462.1	465.1	465.9	467.4	471.3	467.4
127.5°	349.7	386.2	430.8	464.1	490.0	504.8	509.6	511.3	514.5	516.2	514.5
130°	372.4	413.8	459.0	490.4	515.7	531.8	540.2	542.5	546.4	545.6	546.4
132.5°	396.3	439.5	485.4	518.0	541.5	558.8	566.0	572.6	573.9	575.0	573.9
135°	431.4	478.2	524.1	556.3	578.5	595.4	604.6	610.7	614.6	616.9	614.6
137.5°	468.4	517.7	561.8	590.5	612.9	627.4	637.9	644.3	648.3	650.1	648.3
140°	493.5	541.0	583.9	613.8	633.7	648.3	657.5	665.1	669.7	669.7	669.7
142.5°	517.4	564.3	606.0	635.9	653.3	666.7	676.5	682.3	687.5	687.5	687.5
145°	551.0	597.7	636.0	665.9	680.5	692.7	703.4	708.0	711.1	711.1	711.1
147.5°	586.1	627.4	662.4	691.0	703.3	717.7	726.1	729.8	733.6	732.0	733.6
150°	606.9	645.2	678.9	705.7	718.0	731.8	740.2	743.3	747.1	744.8	747.1
152.5°	627.1	663.6	694.2	719.2	729.7	743.4	753.1	756.2	758.8	757.1	758.8
155°	654.4	686.6	714.9	737.9	747.1	760.1	769.3	773.2	776.2	772.4	776.2
157.5°	678.8	706.5	731.2	752.3	762.1	773.3	781.9	786.7	789.7	788.0	789.7
160°	693.5	718.8	741.0	760.9	770.1	780.1	789.3	794.6	797.7	795.4	797.7
162.5°	705.7	728.6	749.6	767.7	775.6	784.4	795.4	800.1	803.2	800.3	803.2
165°	723.4	741.8	760.1	775.5	782.4	789.3	800.8	806.1	808.4	805.4	808.4
167.5°	736.7	750.8	765.7	778.8	783.9	790.6	802.1	806.6	809.5	805.7	809.5
170°	744.1	756.3	769.3	780.1	783.9	790.0	801.5	805.4	807.7	803.8	807.7
172.5°	750.2	759.4	770.0	779.5	781.5	786.4	797.2	801.1	802.8	799.5	802.8
175°	756.3	761.7	769.3	775.5	774.7	777.8	787.0	790.0	793.1	788.5	793.1
177.5°	759.2	761.7	764.1	767.8	765.4	765.4	772.1	773.9	774.6	772.1	774.6
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2317.4	2325.0	2334.7	2351.9	2376.9	2392.7	2381.5	2370.2	2381.5	2392.7	2376.9
5°	2167.2	2191.1	2222.2	2268.9	2331.2	2378.2	2379.2	2380.2	2379.2	2378.2	2331.2
7.5°	2023.1	2049.3	2083.6	2137.7	2211.4	2274.5	2305.6	2336.8	2305.6	2274.5	2211.4
10°	1943.9	1967.3	1998.4	2053.7	2133.0	2204.4	2251.6	2298.8	2251.6	2204.4	2133.0
12.5°	1892.7	1908.8	1931.9	1983.1	2062.5	2140.7	2215.2	2289.8	2215.2	2140.7	2062.5
15°	1847.2	1849.0	1855.0	1892.2	1960.5	2039.9	2152.4	2264.9	2152.4	2039.9	1960.5
17.5°	1823.7	1810.9	1798.0	1817.9	1870.5	1940.3	2061.5	2182.6	2061.5	1940.3	1870.5
20°	1809.1	1788.0	1763.8	1774.9	1821.1	1885.7	2005.2	2124.7	2005.2	1885.7	1821.1
22.5°	1784.1	1762.6	1736.1	1740.7	1776.5	1833.6	1954.8	2075.9	1954.8	1833.6	1776.5
25°	1733.0	1716.4	1693.3	1686.7	1696.8	1738.5	1875.1	2011.7	1875.1	1738.5	1696.8
27.5°	1672.7	1661.7	1647.6	1634.7	1622.8	1649.6	1792.2	1934.9	1792.2	1649.6	1622.8
30°	1637.5	1623.7	1609.6	1593.1	1574.0	1595.3	1738.0	1880.6	1738.0	1595.3	1574.0
32.5°	1643.5	1611.0	1577.7	1546.6	1517.9	1533.2	1680.7	1828.2	1680.7	1533.2	1517.9
35°	1647.6	1581.5	1526.3	1481.0	1445.9	1457.9	1611.6	1765.3	1611.6	1457.9	1445.9
37.5°	1550.8	1507.2	1459.6	1412.0	1364.4	1369.8	1534.6	1699.3	1534.6	1369.8	1364.4
40°	1512.2	1484.3	1423.0	1363.8	1306.5	1306.7	1479.5	1652.3	1479.5	1306.7	1306.5
42.5°	1476.2	1446.9	1367.2	1301.9	1251.0	1256.1	1428.9	1601.7	1428.9	1256.1	1251.0
45°	1262.0	1268.1	1247.0	1210.8	1159.6	1166.1	1345.9	1525.8	1345.9	1166.1	1159.6
47.5°	1060.2	1104.1	1151.3	1147.3	1092.1	1093.5	1264.9	1436.2	1264.9	1093.5	1092.1
50°	971.0	1033.0	1108.3	1114.4	1051.1	1044.0	1205.8	1367.5	1205.8	1044.0	1051.1
52.5°	896.8	975.7	1076.0	1088.0	1011.9	993.2	1146.9	1300.6	1146.9	993.2	1011.9
55°	799.4	903.4	1041.0	1057.1	951.6	909.4	1057.1	1204.8	1057.1	909.4	951.6
57.5°	714.2	802.4	921.8	938.7	853.1	823.8	963.4	1103.1	963.4	823.8	853.1
60°	660.8	724.1	806.5	822.5	772.3	768.5	904.1	1039.8	904.1	768.5	772.3
62.5°	595.7	639.1	694.9	713.8	695.7	714.5	843.7	972.9	843.7	714.5	695.7
65°	476.9	511.6	557.8	584.9	593.0	628.4	745.9	863.5	745.9	628.4	593.0
67.5°	385.5	417.9	453.0	480.0	498.6	538.3	640.7	743.2	640.7	538.3	498.6
70°	307.9	341.3	380.5	412.6	437.8	479.2	569.6	660.0	569.6	479.2	437.8
72.5°	251.3	279.8	311.8	343.1	373.9	416.3	493.9	571.4	493.9	416.3	373.9
75°	162.2	184.6	213.7	245.4	279.5	320.7	383.0	445.3	383.0	320.7	279.5
77.5°	120.8	131.7	146.4	168.4	197.7	231.1	276.5	321.9	276.5	231.1	197.7
80°	97.4	97.9	99.0	114.5	144.7	175.8	210.0	244.1	210.0	175.8	144.7
82.5°	77.4	76.2	74.8	83.2	101.3	121.2	146.5	171.8	146.5	121.2	101.3
85°	35.9	39.2	43.2	46.2	48.2	52.7	64.8	76.9	64.8	52.7	48.2
87.5°	12.3	12.1	12.1	13.2	15.1	16.5	16.5	16.7	16.5	16.4	15.4
90°	16.1	15.3	15.3	14.6	12.3	9.2	5.4	2.3	5.4	8.4	13.8
92.5°	19.2	19.0	17.8	16.4	13.5	13.5	13.3	8.4	14.6	20.7	29.7
95°	17.6	17.6	20.7	26.1	38.3	39.1	26.1	23.8	33.7	47.5	59.8
97.5°	47.7	56.7	69.6	72.0	68.2	50.9	48.7	45.4	61.8	75.4	95.2
100°	88.1	99.6	108.8	90.4	71.3	70.5	65.9	64.4	82.0	95.0	114.2
102.5°	137.8	141.3	109.4	99.0	94.6	91.3	84.3	83.4	101.0	118.9	135.0
105°	149.4	134.1	134.9	134.9	131.8	125.7	112.6	111.9	131.8	152.5	172.4
107.5°	175.8	178.1	182.1	181.1	177.6	161.2	145.9	142.4	160.3	185.1	207.0
110°	210.7	213.0	214.6	213.0	207.7	187.0	168.6	163.2	179.3	205.4	229.1



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	244.4	246.1	249.5	244.9	235.9	212.1	191.3	183.4	199.5	226.2	250.6
115°	298.1	298.1	298.8	296.6	278.2	253.6	226.1	214.6	228.4	252.9	279.7
117.5°	350.8	351.7	348.7	342.5	321.2	292.7	261.8	243.4	254.3	280.2	307.7
120°	383.9	385.4	382.4	373.2	352.5	320.3	285.1	263.6	272.0	297.3	324.9
122.5°	418.2	417.9	414.3	403.8	379.5	346.1	311.4	285.1	288.6	312.0	339.0
125°	465.9	465.1	462.1	449.8	424.5	390.0	349.4	317.2	312.6	332.6	360.2
127.5°	511.3	509.6	504.8	490.0	464.1	430.8	386.2	349.7	339.5	352.0	377.3
130°	542.5	540.2	531.8	515.7	490.4	459.0	413.8	372.4	357.9	365.5	387.7
132.5°	572.6	566.0	558.8	541.5	518.0	485.4	439.5	396.3	376.2	379.6	396.9
135°	610.7	604.6	595.4	578.5	556.3	524.1	478.2	431.4	403.8	400.8	410.7
137.5°	644.3	637.9	627.4	612.9	590.5	561.8	517.7	468.4	433.6	423.3	427.1
140°	665.1	657.5	648.3	633.7	613.8	583.9	541.0	493.5	454.4	439.8	437.5
142.5°	682.3	676.5	666.7	653.3	635.9	606.0	564.3	517.4	475.9	457.0	451.6
145°	708.0	703.4	692.7	680.5	665.9	636.0	597.7	551.0	509.6	485.1	473.6
147.5°	729.8	726.1	717.7	703.3	691.0	662.4	627.4	586.1	543.6	513.3	498.4
150°	743.3	740.2	731.8	718.0	705.7	678.9	645.2	606.9	566.3	534.1	514.9
152.5°	756.2	753.1	743.4	729.7	719.2	694.2	663.6	627.1	585.9	553.7	533.9
155°	773.2	769.3	760.1	747.1	737.9	714.9	686.6	654.4	619.2	585.4	563.2
157.5°	786.7	781.9	773.3	762.1	752.3	731.2	706.5	678.8	648.0	615.8	593.1
160°	794.6	789.3	780.1	770.1	760.9	741.0	718.8	693.5	665.1	636.0	611.5
162.5°	800.1	795.4	784.4	775.6	767.7	749.6	728.6	705.7	680.5	655.0	632.3
165°	806.1	800.8	789.3	782.4	775.5	760.1	741.8	723.4	701.9	681.2	662.8
167.5°	806.6	802.1	790.6	783.9	778.8	765.7	750.8	736.7	720.0	703.8	688.4
170°	805.4	801.5	790.0	783.9	780.1	769.3	756.3	744.1	731.0	717.2	705.0
172.5°	801.1	797.2	786.4	781.5	779.5	770.0	759.4	750.2	739.0	728.9	719.1
175°	790.0	787.0	777.8	774.7	775.5	769.3	761.7	756.3	749.4	743.3	737.9
177.5°	773.9	772.1	765.4	765.4	767.8	764.1	761.7	759.2	756.2	754.3	752.5
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2351.9	2334.7	2325.0	2317.4	2315.8	2314.2	2315.8	2317.4	2325.0	2334.7	2351.9
5°	2268.9	2222.2	2191.1	2167.2	2165.2	2163.2	2165.2	2167.2	2191.1	2222.2	2268.9
7.5°	2137.7	2083.6	2049.3	2023.1	2021.5	2019.9	2021.5	2023.1	2049.3	2083.6	2137.7
10°	2053.7	1998.4	1967.3	1943.9	1943.9	1943.9	1943.9	1943.9	1967.3	1998.4	2053.7
12.5°	1983.1	1931.9	1908.8	1892.7	1897.5	1902.3	1897.5	1892.7	1908.8	1931.9	1983.1
15°	1892.2	1855.0	1849.0	1847.2	1858.3	1869.3	1858.3	1847.2	1849.0	1855.0	1892.2
17.5°	1817.9	1798.0	1810.9	1823.7	1836.6	1849.4	1836.6	1823.7	1810.9	1798.0	1817.9
20°	1774.9	1763.8	1788.0	1809.1	1821.1	1833.2	1821.1	1809.1	1788.0	1763.8	1774.9
22.5°	1740.7	1736.1	1762.6	1784.1	1790.6	1797.0	1790.6	1784.1	1762.6	1736.1	1740.7
25°	1686.7	1693.3	1716.4	1733.0	1729.9	1726.9	1729.9	1733.0	1716.4	1693.3	1686.7
27.5°	1634.7	1647.6	1661.7	1672.7	1674.5	1676.3	1674.5	1672.7	1661.7	1647.6	1634.7
30°	1593.1	1609.6	1623.7	1637.5	1650.6	1663.6	1650.6	1637.5	1623.7	1609.6	1593.1
32.5°	1546.6	1577.7	1611.0	1643.5	1673.5	1703.4	1673.5	1643.5	1611.0	1577.7	1546.6
35°	1481.0	1526.3	1581.5	1647.6	1746.0	1844.5	1746.0	1647.6	1581.5	1526.3	1481.0
37.5°	1412.0	1459.6	1507.2	1550.8	1582.1	1613.5	1582.1	1550.8	1507.2	1459.6	1412.0
40°	1363.8	1423.0	1484.3	1512.2	1439.9	1367.5	1439.9	1512.2	1484.3	1423.0	1363.8
42.5°	1301.9	1367.2	1446.9	1476.2	1354.1	1231.9	1354.1	1476.2	1446.9	1367.2	1301.9
45°	1210.8	1247.0	1268.1	1262.0	1174.6	1087.2	1174.6	1262.0	1268.1	1247.0	1210.8
47.5°	1147.3	1151.3	1104.1	1060.2	1026.0	991.9	1026.0	1060.2	1104.1	1151.3	1147.3
50°	1114.4	1108.3	1033.0	971.0	948.9	926.8	948.9	971.0	1033.0	1108.3	1114.4
52.5°	1088.0	1076.0	975.7	896.8	881.9	867.1	881.9	896.8	975.7	1076.0	1088.0
55°	1057.1	1041.0	903.4	799.4	796.4	793.4	796.4	799.4	903.4	1041.0	1057.1
57.5°	938.7	921.8	802.4	714.2	719.5	724.7	719.5	714.2	802.4	921.8	938.7
60°	822.5	806.5	724.1	660.8	654.8	648.7	654.8	660.8	724.1	806.5	822.5
62.5°	713.8	694.9	639.1	595.7	589.7	583.6	589.7	595.7	639.1	694.9	713.8
65°	584.9	557.8	511.6	476.9	476.9	476.9	476.9	476.9	511.6	557.8	584.9
67.5°	480.0	453.0	417.9	385.5	361.4	337.2	361.4	385.5	417.9	453.0	480.0
70°	412.6	380.5	341.3	307.9	291.8	275.8	291.8	307.9	341.3	380.5	412.6
72.5°	343.1	311.8	279.8	251.3	232.8	214.3	232.8	251.3	279.8	311.8	343.1
75°	245.4	213.7	184.6	162.2	160.2	158.2	160.2	162.2	184.6	213.7	245.4
77.5°	168.4	146.4	131.7	120.8	121.0	121.2	121.0	120.8	131.7	146.4	168.4
80°	114.5	99.0	97.9	97.4	98.5	99.5	98.5	97.4	97.9	99.0	114.5
82.5°	83.2	74.8	76.2	77.4	77.6	77.8	77.6	77.4	76.2	74.8	83.2
85°	46.2	43.2	39.2	35.9	34.9	33.9	34.9	35.9	39.2	43.2	46.2
87.5°	13.8	13.6	14.7	15.3	15.9	15.6	15.9	15.3	14.7	13.6	13.8
90°	17.6	23.0	28.4	31.4	34.5	33.0	34.5	31.4	28.4	23.0	17.6
92.5°	35.4	44.4	51.0	56.6	59.0	58.7	59.0	56.6	51.0	44.4	35.4
95°	71.3	82.0	92.7	100.4	105.0	103.4	105.0	100.4	92.7	82.0	71.3
97.5°	109.9	124.3	136.2	143.4	148.0	151.1	148.0	143.4	136.2	124.3	109.9
100°	135.6	149.4	163.2	171.6	179.3	182.4	179.3	171.6	163.2	149.4	135.6
102.5°	156.5	174.6	189.6	198.6	205.1	208.1	205.1	198.6	189.6	174.6	156.5
105°	190.8	210.0	226.1	237.5	244.4	246.7	244.4	237.5	226.1	210.0	190.8
107.5°	225.1	244.9	259.8	272.5	280.9	285.8	280.9	272.5	259.8	244.9	225.1
110°	252.1	268.2	284.3	295.8	304.2	307.3	304.2	295.8	284.3	268.2	252.1



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	274.8	292.7	308.8	320.3	330.0	334.3	330.0	320.3	308.8	292.7	274.8
115°	306.5	330.3	344.8	355.6	362.5	366.3	362.5	355.6	344.8	330.3	306.5
117.5°	332.9	357.7	373.6	381.9	385.1	387.9	385.1	381.9	373.6	357.7	332.9
120°	349.4	372.4	390.8	401.5	405.4	406.9	405.4	401.5	390.8	372.4	349.4
122.5°	364.7	386.5	404.3	417.5	423.8	425.3	423.8	417.5	404.3	386.5	364.7
125°	386.2	406.9	425.3	438.3	445.2	449.0	445.2	438.3	425.3	406.9	386.2
127.5°	404.9	427.3	444.1	455.9	462.7	465.7	462.7	455.9	444.1	427.3	404.9
130°	415.3	438.3	455.2	468.2	474.3	477.4	474.3	468.2	455.2	438.3	415.3
132.5°	423.3	447.5	465.0	476.8	483.5	486.6	483.5	476.8	465.0	447.5	423.3
135°	432.9	458.2	476.6	488.1	494.3	497.3	494.3	488.1	476.6	458.2	432.9
137.5°	441.4	464.4	483.5	495.6	501.1	503.1	501.1	495.6	483.5	464.4	441.4
140°	447.5	467.4	486.6	498.1	504.2	505.0	504.2	498.1	486.6	467.4	447.5
142.5°	455.5	471.1	487.8	499.3	505.4	506.8	505.4	499.3	487.8	471.1	455.5
145°	469.7	478.9	490.4	501.1	506.5	508.0	506.5	501.1	490.4	478.9	469.7
147.5°	487.7	490.6	496.5	503.6	508.8	509.9	508.8	503.6	496.5	490.6	487.7
150°	501.1	500.4	502.7	507.3	511.9	511.1	511.9	507.3	502.7	500.4	501.1
152.5°	516.5	512.0	511.9	514.0	516.2	516.0	516.2	514.0	511.9	512.0	516.5
155°	542.5	534.1	529.5	528.0	528.0	527.2	528.0	528.0	529.5	534.1	542.5
157.5°	571.2	559.4	552.5	548.8	547.7	546.1	547.7	548.8	552.5	559.4	571.2
160°	590.8	577.8	570.9	564.7	562.4	560.2	562.4	564.7	570.9	577.8	590.8
162.5°	609.2	596.8	589.3	583.8	581.5	577.9	581.5	583.8	589.3	596.8	609.2
165°	639.1	626.1	617.6	613.0	610.0	606.9	610.0	613.0	617.6	626.1	639.1
167.5°	669.0	654.7	649.2	644.0	641.1	635.6	641.1	644.0	649.2	654.7	669.0
170°	687.4	674.3	671.3	666.7	661.3	655.2	661.3	666.7	671.3	674.3	687.4
172.5°	703.3	694.6	691.5	686.9	685.2	680.3	685.2	686.9	691.5	694.6	703.3
175°	726.4	719.5	719.5	718.8	716.5	711.9	716.5	718.8	719.5	719.5	726.4
177.5°	745.7	742.1	744.5	744.5	743.9	739.6	743.9	744.5	744.5	742.1	745.7
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2375.7	2375.7	2375.7	2375.7
2.5°	2376.9	2392.7	2381.5	2370.2
5°	2331.2	2378.2	2379.2	2380.2
7.5°	2211.4	2274.5	2305.6	2336.8
10°	2133.0	2204.4	2251.6	2298.8
12.5°	2062.5	2140.7	2215.2	2289.8
15°	1960.5	2039.9	2152.4	2264.9
17.5°	1870.5	1940.3	2061.5	2182.6
20°	1821.1	1885.7	2005.2	2124.7
22.5°	1776.5	1833.6	1954.8	2075.9
25°	1696.8	1738.5	1875.1	2011.7
27.5°	1622.8	1649.6	1792.2	1934.9
30°	1574.0	1595.3	1738.0	1880.6
32.5°	1517.9	1533.2	1680.7	1828.2
35°	1445.9	1457.9	1611.6	1765.3
37.5°	1364.4	1369.8	1534.6	1699.3
40°	1306.5	1306.7	1479.5	1652.3
42.5°	1251.0	1256.1	1428.9	1601.7
45°	1159.6	1166.1	1345.9	1525.8
47.5°	1092.1	1093.5	1264.9	1436.2
50°	1051.1	1044.0	1205.8	1367.5
52.5°	1011.9	993.2	1146.9	1300.6
55°	951.6	909.4	1057.1	1204.8
57.5°	853.1	823.8	963.4	1103.1
60°	772.3	768.5	904.1	1039.8
62.5°	695.7	714.5	843.7	972.9
65°	593.0	628.4	745.9	863.5
67.5°	498.6	538.3	640.7	743.2
70°	437.8	479.2	569.6	660.0
72.5°	373.9	416.3	493.9	571.4
75°	279.5	320.7	383.0	445.3
77.5°	197.7	231.1	276.5	321.9
80°	144.7	175.8	210.0	244.1
82.5°	101.3	121.2	146.5	171.8
85°	48.2	52.7	64.8	76.9
87.5°	15.4	16.4	16.5	16.7
90°	13.8	8.4	5.4	2.3
92.5°	29.7	20.7	14.6	8.4
95°	59.8	47.5	33.7	23.8
97.5°	95.2	75.4	61.8	45.4
100°	114.2	95.0	82.0	64.4
102.5°	135.0	118.9	101.0	83.4
105°	172.4	152.5	131.8	111.9
107.5°	207.0	185.1	160.3	142.4
110°	229.1	205.4	179.3	163.2



TEST NUMBER: P1427881

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	250.6	226.2	199.5	183.4
115°	279.7	252.9	228.4	214.6
117.5°	307.7	280.2	254.3	243.4
120°	324.9	297.3	272.0	263.6
122.5°	339.0	312.0	288.6	285.1
125°	360.2	332.6	312.6	317.2
127.5°	377.3	352.0	339.5	349.7
130°	387.7	365.5	357.9	372.4
132.5°	396.9	379.6	376.2	396.3
135°	410.7	400.8	403.8	431.4
137.5°	427.1	423.3	433.6	468.4
140°	437.5	439.8	454.4	493.5
142.5°	451.6	457.0	475.9	517.4
145°	473.6	485.1	509.6	551.0
147.5°	498.4	513.3	543.6	586.1
150°	514.9	534.1	566.3	606.9
152.5°	533.9	553.7	585.9	627.1
155°	563.2	585.4	619.2	654.4
157.5°	593.1	615.8	648.0	678.8
160°	611.5	636.0	665.1	693.5
162.5°	632.3	655.0	680.5	705.7
165°	662.8	681.2	701.9	723.4
167.5°	688.4	703.8	720.0	736.7
170°	705.0	717.2	731.0	744.1
172.5°	719.1	728.9	739.0	750.2
175°	737.9	743.3	749.4	756.3
177.5°	752.5	754.3	756.2	759.2
180°	758.6	758.6	758.6	758.6



TEST NUMBER: P1427881
 CATALOG NUMBER: SQ2W-PH1-K-050U-100D-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	21.25	22.32	22.01	23.10	24.05	20.08	21.15	20.84	21.93	22.88
	3H	23.44	24.40	24.22	25.19	26.17	21.14	22.10	21.92	22.89	23.87
	4H	24.26	25.17	25.06	25.97	26.96	21.40	22.30	22.19	23.10	24.09
	6H	24.74	25.57	25.55	26.38	27.39	21.55	22.38	22.36	23.19	24.20
	8H	24.90	25.69	25.71	26.52	27.52	21.61	22.41	22.43	23.24	24.24
	12H	24.96	25.72	25.79	26.54	27.57	21.63	22.39	22.45	23.21	24.24
4H	2H	21.71	22.61	22.51	23.41	24.40	20.79	21.69	21.58	22.49	23.48
	3H	23.98	24.73	24.79	25.57	26.57	22.04	22.79	22.85	23.62	24.63
	4H	24.86	25.54	25.69	26.38	27.41	22.34	23.02	23.16	23.85	24.89
	6H	25.43	26.02	26.27	26.88	27.92	22.55	23.14	23.39	23.99	25.03
	8H	25.64	26.19	26.49	27.05	28.10	22.64	23.19	23.49	24.05	25.10
	12H	25.74	26.23	26.60	27.10	28.16	22.67	23.17	23.54	24.04	25.10
8H	4H	24.90	25.45	25.75	26.31	27.36	22.58	23.13	23.43	23.99	25.04
	6H	25.54	25.99	26.41	26.89	27.94	22.86	23.31	23.73	24.21	25.26
	8H	25.80	26.21	26.69	27.10	28.17	23.01	23.41	23.89	24.30	25.37
	12H	25.94	26.30	26.83	27.18	28.31	23.08	23.44	23.97	24.32	25.44
12H	4H	24.86	25.36	25.73	26.23	27.29	22.59	23.08	23.45	23.96	25.01
	6H	25.52	25.92	26.40	26.81	27.88	22.89	23.30	23.78	24.19	25.26
	8H	25.80	26.15	26.68	27.04	28.16	23.07	23.42	23.95	24.30	25.43