

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: P1427935

Luminaire Tested: SQ2W-PH1-K-100U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427935
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-125D-L840-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

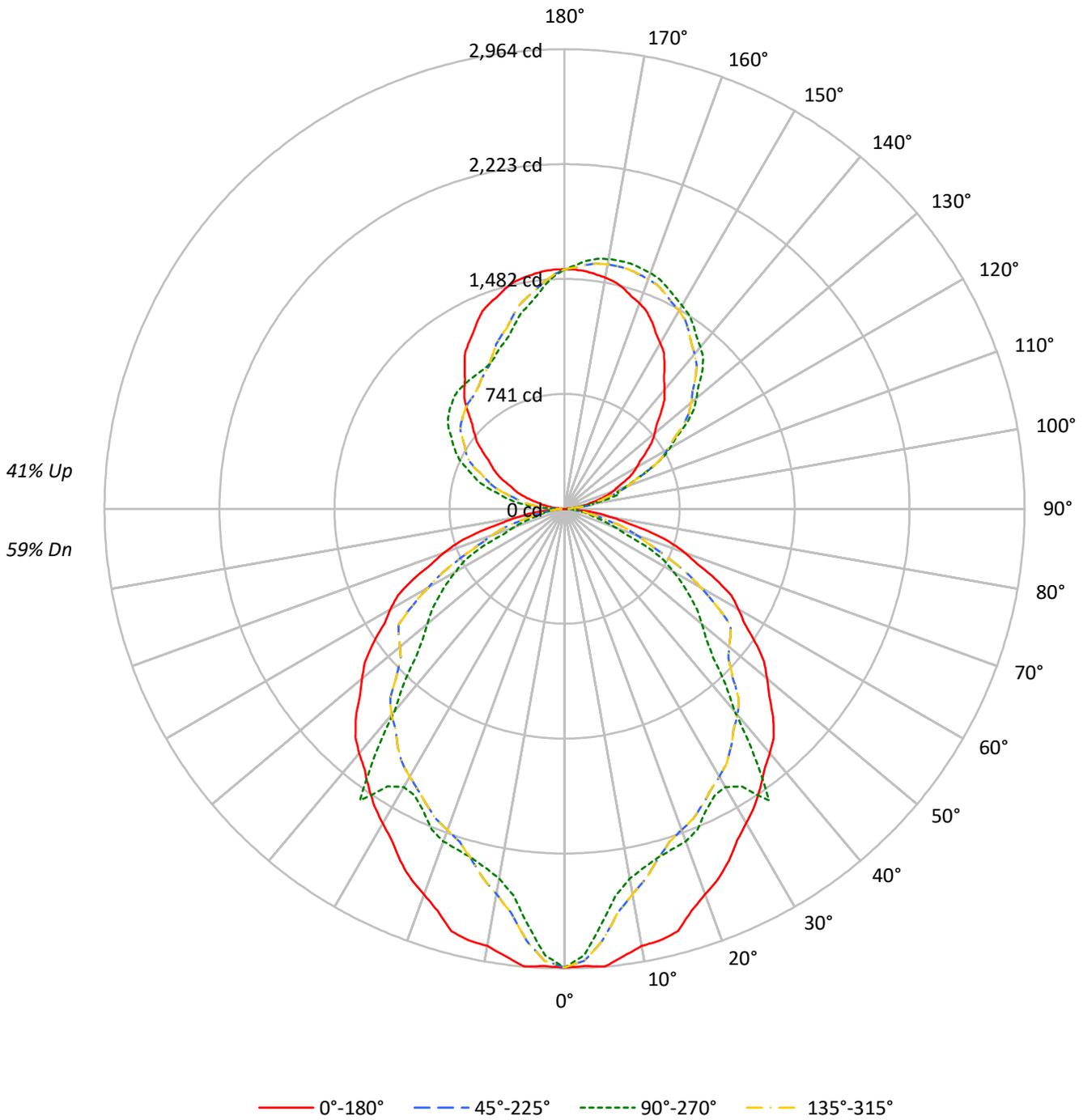
Lumens per Lamp: N/A
Luminaire Lumens: 11052.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59				
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	58	56	55	50				
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43				
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36				
4	76	65	58	51	71	61	54	49	54	48	44	47	43	39	40	37	34	31				
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	36	33	30	27				
6	65	52	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17				
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	47759	47759	47759	47759
5°	48033	43654	48033	43654
10°	46928	39683	46928	39683
15°	47138	38906	47138	38906
20°	45456	39219	45456	39219
25°	44624	38307	44624	38307
30°	43657	38620	43657	38620
35°	43325	45266	43325	45266
40°	43363	35889	43363	35889
45°	43379	30912	43379	30912
50°	42771	28984	42771	28984
55°	42226	27808	42226	27808
60°	41807	26085	41807	26085
65°	41073	22689	41073	22689
70°	38794	16211	38794	16211
75°	34591	12289	34591	12289
80°	28265	11511	28265	11511
85°	17728	7818	17728	7818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43379 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	2.4
10°-20°	684.6	6.2
20°-30°	1003.8	9.1
30°-40°	1215.4	11.0
40°-50°	1195.2	10.8
50°-60°	1039.6	9.4
60°-70°	723.0	6.5
70°-80°	342.9	3.1
80°-90°	82.0	0.7
90°-100°	122.8	1.1
100°-110°	358.2	3.2
110°-120°	584.5	5.3
120°-130°	741.7	6.7
130°-140°	793.6	7.2
140°-150°	741.1	6.7
150°-160°	609.8	5.5
160°-170°	409.0	3.7
170°-180°	145.2	1.3
0°-30°	1948.7	17.6
0°-40°	3164.1	28.6
0°-60°	5398.9	48.8
0°-90°	6546.9	59.2
90°-120°	1065.5	9.6
90°-150°	3341.8	30.2
90°-180°	4506.0	40.8
0°-180°	11052.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2958	2958	2958	2958	2958	
5°	2964	2694	2964	2694	2964	279
15°	2820	2328	2820	2328	2820	786
25°	2505	2150	2505	2150	2505	1152
35°	2198	2297	2198	2297	2198	1377
45°	1900	1354	1900	1354	1900	1460
55°	1500	988	1500	988	1500	1340
65°	1075	594	1075	594	1075	1056
75°	554	197	554	197	554	588
85°	96	42	96	42	96	128
90°	5	34	5	67	5	7
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°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	2951.3	2965.3	2979.3	2959.5	2928.5	2907.0	2895.0	2885.5	2883.5	2881.5	2883.5
5°	2963.7	2962.4	2961.2	2902.7	2825.1	2767.0	2728.2	2698.5	2696.0	2693.5	2696.0
7.5°	2909.6	2870.9	2832.1	2753.5	2661.7	2594.4	2551.6	2519.0	2517.0	2515.0	2517.0
10°	2862.4	2803.6	2744.8	2656.0	2557.1	2488.3	2449.6	2420.5	2420.5	2420.5	2420.5
12.5°	2851.1	2758.3	2665.5	2568.1	2469.3	2405.5	2376.8	2356.7	2362.7	2368.7	2362.7
15°	2820.1	2680.0	2539.9	2441.1	2356.1	2309.8	2302.3	2300.1	2313.8	2327.6	2313.8
17.5°	2717.7	2566.8	2416.0	2329.1	2263.6	2238.8	2254.8	2270.8	2286.8	2302.8	2286.8
20°	2645.6	2496.8	2347.9	2267.6	2210.0	2196.3	2226.3	2252.5	2267.6	2282.6	2267.6
22.5°	2584.8	2434.0	2283.1	2212.0	2167.5	2161.7	2194.8	2221.5	2229.5	2237.5	2229.5
25°	2504.9	2334.8	2164.7	2112.8	2100.2	2108.4	2137.2	2157.8	2154.0	2150.3	2154.0
27.5°	2409.2	2231.6	2054.0	2020.6	2035.4	2051.5	2069.0	2082.7	2085.0	2087.2	2085.0
30°	2341.7	2164.0	1986.4	1959.8	1983.6	2004.2	2021.8	2039.0	2055.2	2071.5	2055.2
32.5°	2276.4	2092.7	1909.1	1890.0	1925.8	1964.5	2006.0	2046.5	2083.7	2121.0	2083.7
35°	2198.1	2006.7	1815.4	1800.3	1844.1	1900.4	1969.2	2051.5	2174.1	2296.6	2174.1
37.5°	2115.9	1910.8	1705.7	1698.8	1758.1	1817.4	1876.7	1930.9	1970.0	2009.0	1970.0
40°	2057.4	1842.3	1627.1	1626.8	1698.1	1771.9	1848.2	1882.9	1792.8	1702.8	1792.8
42.5°	1994.4	1779.2	1564.1	1557.7	1621.0	1702.3	1801.7	1838.1	1686.0	1533.9	1686.0
45°	1899.8	1675.9	1452.0	1443.8	1507.6	1552.7	1578.9	1571.4	1462.6	1353.8	1462.6
47.5°	1788.3	1574.9	1361.5	1359.8	1428.6	1433.6	1374.8	1320.1	1277.5	1235.0	1277.5
50°	1702.8	1501.4	1300.0	1308.7	1387.6	1380.0	1286.2	1209.0	1181.5	1153.9	1181.5
52.5°	1619.5	1428.1	1236.7	1260.0	1354.8	1339.8	1214.9	1116.7	1098.2	1079.6	1098.2
55°	1500.1	1316.3	1132.4	1184.9	1316.3	1296.2	1124.9	995.4	991.6	987.9	991.6
57.5°	1373.5	1199.6	1025.7	1062.2	1168.8	1147.8	999.2	889.3	895.8	902.3	895.8
60°	1294.7	1125.8	956.9	961.6	1024.2	1004.2	901.6	822.8	815.3	807.8	815.3
62.5°	1211.4	1050.5	889.6	866.3	888.8	865.3	795.8	741.7	734.2	726.7	734.2
65°	1075.1	928.8	782.4	738.3	728.3	694.6	637.0	593.9	593.9	593.9	593.9
67.5°	925.4	797.8	670.2	620.9	597.6	564.1	520.3	480.0	449.9	419.9	449.9
70°	821.8	709.3	596.7	545.1	513.8	473.8	425.0	383.4	363.4	343.4	363.4
72.5°	711.5	614.9	518.4	465.5	427.2	388.2	348.4	312.8	289.8	266.8	289.8
75°	554.5	476.9	399.3	348.1	305.5	266.1	229.9	202.0	199.5	197.0	199.5
77.5°	400.8	344.2	287.7	246.2	209.6	182.3	164.0	150.4	150.6	150.9	150.6
80°	304.0	261.4	218.9	180.1	142.6	123.2	122.0	121.3	122.6	123.8	122.6
82.5°	213.9	182.4	150.9	126.1	103.6	93.2	94.9	96.3	96.6	96.8	96.6
85°	95.7	80.7	65.7	60.0	57.5	53.8	48.8	44.7	43.5	42.2	43.5
87.5°	21.2	21.4	22.0	20.7	18.7	17.5	17.5	17.8	18.1	18.1	18.1
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°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	2885.5	2895.0	2907.0	2928.5	2959.5	2979.3	2965.3	2951.3	2965.3	2979.3	2959.5
5°	2698.5	2728.2	2767.0	2825.1	2902.7	2961.2	2962.4	2963.7	2962.4	2961.2	2902.7
7.5°	2519.0	2551.6	2594.4	2661.7	2753.5	2832.1	2870.9	2909.6	2870.9	2832.1	2753.5
10°	2420.5	2449.6	2488.3	2557.1	2656.0	2744.8	2803.6	2862.4	2803.6	2744.8	2656.0
12.5°	2356.7	2376.8	2405.5	2469.3	2568.1	2665.5	2758.3	2851.1	2758.3	2665.5	2568.1
15°	2300.1	2302.3	2309.8	2356.1	2441.1	2539.9	2680.0	2820.1	2680.0	2539.9	2441.1
17.5°	2270.8	2254.8	2238.8	2263.6	2329.1	2416.0	2566.8	2717.7	2566.8	2416.0	2329.1
20°	2252.5	2226.3	2196.3	2210.0	2267.6	2347.9	2496.8	2645.6	2496.8	2347.9	2267.6
22.5°	2221.5	2194.8	2161.7	2167.5	2212.0	2283.1	2434.0	2584.8	2434.0	2283.1	2212.0
25°	2157.8	2137.2	2108.4	2100.2	2112.8	2164.7	2334.8	2504.9	2334.8	2164.7	2112.8
27.5°	2082.7	2069.0	2051.5	2035.4	2020.6	2054.0	2231.6	2409.2	2231.6	2054.0	2020.6
30°	2039.0	2021.8	2004.2	1983.6	1959.8	1986.4	2164.0	2341.7	2164.0	1986.4	1959.8
32.5°	2046.5	2006.0	1964.5	1925.8	1890.0	1909.1	2092.7	2276.4	2092.7	1909.1	1890.0
35°	2051.5	1969.2	1900.4	1844.1	1800.3	1815.4	2006.7	2198.1	2006.7	1815.4	1800.3
37.5°	1930.9	1876.7	1817.4	1758.1	1698.8	1705.7	1910.8	2115.9	1910.8	1705.7	1698.8
40°	1882.9	1848.2	1771.9	1698.1	1626.8	1627.1	1842.3	2057.4	1842.3	1627.1	1626.8
42.5°	1838.1	1801.7	1702.3	1621.0	1557.7	1564.1	1779.2	1994.4	1779.2	1564.1	1557.7
45°	1571.4	1578.9	1552.7	1507.6	1443.8	1452.0	1675.9	1899.8	1675.9	1452.0	1443.8
47.5°	1320.1	1374.8	1433.6	1428.6	1359.8	1361.5	1574.9	1788.3	1574.9	1361.5	1359.8
50°	1209.0	1286.2	1380.0	1387.6	1308.7	1300.0	1501.4	1702.8	1501.4	1300.0	1308.7
52.5°	1116.7	1214.9	1339.8	1354.8	1260.0	1236.7	1428.1	1619.5	1428.1	1236.7	1260.0
55°	995.4	1124.9	1296.2	1316.3	1184.9	1132.4	1316.3	1500.1	1316.3	1132.4	1184.9
57.5°	889.3	999.2	1147.8	1168.8	1062.2	1025.7	1199.6	1373.5	1199.6	1025.7	1062.2
60°	822.8	901.6	1004.2	1024.2	961.6	956.9	1125.8	1294.7	1125.8	956.9	961.6
62.5°	741.7	795.8	865.3	888.8	866.3	889.6	1050.5	1211.4	1050.5	889.6	866.3
65°	593.9	637.0	694.6	728.3	738.3	782.4	928.8	1075.1	928.8	782.4	738.3
67.5°	480.0	520.3	564.1	597.6	620.9	670.2	797.8	925.4	797.8	670.2	620.9
70°	383.4	425.0	473.8	513.8	545.1	596.7	709.3	821.8	709.3	596.7	545.1
72.5°	312.8	348.4	388.2	427.2	465.5	518.4	614.9	711.5	614.9	518.4	465.5
75°	202.0	229.9	266.1	305.5	348.1	399.3	476.9	554.5	476.9	399.3	348.1
77.5°	150.4	164.0	182.3	209.6	246.2	287.7	344.2	400.8	344.2	287.7	246.2
80°	121.3	122.0	123.2	142.6	180.1	218.9	261.4	304.0	261.4	218.9	180.1
82.5°	96.3	94.9	93.2	103.6	126.1	150.9	182.4	213.9	182.4	150.9	126.1
85°	44.7	48.8	53.8	57.5	60.0	65.7	80.7	95.7	80.7	65.7	60.0
87.5°	17.8	17.5	17.5	18.7	20.7	22.0	21.4	21.2	21.4	21.7	21.4
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: P1427935

CATALOG NUMBER: SQ2W-PH1-K-100U-125D-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

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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	2928.5	2907.0	2895.0	2885.5	2883.5	2881.5	2883.5	2885.5	2895.0	2907.0	2928.5
5°	2825.1	2767.0	2728.2	2698.5	2696.0	2693.5	2696.0	2698.5	2728.2	2767.0	2825.1
7.5°	2661.7	2594.4	2551.6	2519.0	2517.0	2515.0	2517.0	2519.0	2551.6	2594.4	2661.7
10°	2557.1	2488.3	2449.6	2420.5	2420.5	2420.5	2420.5	2420.5	2449.6	2488.3	2557.1
12.5°	2469.3	2405.5	2376.8	2356.7	2362.7	2368.7	2362.7	2356.7	2376.8	2405.5	2469.3
15°	2356.1	2309.8	2302.3	2300.1	2313.8	2327.6	2313.8	2300.1	2302.3	2309.8	2356.1
17.5°	2263.6	2238.8	2254.8	2270.8	2286.8	2302.8	2286.8	2270.8	2254.8	2238.8	2263.6
20°	2210.0	2196.3	2226.3	2252.5	2267.6	2282.6	2267.6	2252.5	2226.3	2196.3	2210.0
22.5°	2167.5	2161.7	2194.8	2221.5	2229.5	2237.5	2229.5	2221.5	2194.8	2161.7	2167.5
25°	2100.2	2108.4	2137.2	2157.8	2154.0	2150.3	2154.0	2157.8	2137.2	2108.4	2100.2
27.5°	2035.4	2051.5	2069.0	2082.7	2085.0	2087.2	2085.0	2082.7	2069.0	2051.5	2035.4
30°	1983.6	2004.2	2021.8	2039.0	2055.2	2071.5	2055.2	2039.0	2021.8	2004.2	1983.6
32.5°	1925.8	1964.5	2006.0	2046.5	2083.7	2121.0	2083.7	2046.5	2006.0	1964.5	1925.8
35°	1844.1	1900.4	1969.2	2051.5	2174.1	2296.6	2174.1	2051.5	1969.2	1900.4	1844.1
37.5°	1758.1	1817.4	1876.7	1930.9	1970.0	2009.0	1970.0	1930.9	1876.7	1817.4	1758.1
40°	1698.1	1771.9	1848.2	1882.9	1792.8	1702.8	1792.8	1882.9	1848.2	1771.9	1698.1
42.5°	1621.0	1702.3	1801.7	1838.1	1686.0	1533.9	1686.0	1838.1	1801.7	1702.3	1621.0
45°	1507.6	1552.7	1578.9	1571.4	1462.6	1353.8	1462.6	1571.4	1578.9	1552.7	1507.6
47.5°	1428.6	1433.6	1374.8	1320.1	1277.5	1235.0	1277.5	1320.1	1374.8	1433.6	1428.6
50°	1387.6	1380.0	1286.2	1209.0	1181.5	1153.9	1181.5	1209.0	1286.2	1380.0	1387.6
52.5°	1354.8	1339.8	1214.9	1116.7	1098.2	1079.6	1098.2	1116.7	1214.9	1339.8	1354.8
55°	1316.3	1296.2	1124.9	995.4	991.6	987.9	991.6	995.4	1124.9	1296.2	1316.3
57.5°	1168.8	1147.8	999.2	889.3	895.8	902.3	895.8	889.3	999.2	1147.8	1168.8
60°	1024.2	1004.2	901.6	822.8	815.3	807.8	815.3	822.8	901.6	1004.2	1024.2
62.5°	888.8	865.3	795.8	741.7	734.2	726.7	734.2	741.7	795.8	865.3	888.8
65°	728.3	694.6	637.0	593.9	593.9	593.9	593.9	637.0	694.6	728.3	728.3
67.5°	597.6	564.1	520.3	480.0	449.9	419.9	449.9	520.3	564.1	597.6	597.6
70°	513.8	473.8	425.0	383.4	363.4	343.4	363.4	425.0	473.8	513.8	513.8
72.5°	427.2	388.2	348.4	312.8	289.8	266.8	289.8	348.4	388.2	427.2	427.2
75°	305.5	266.1	229.9	202.0	199.5	197.0	199.5	229.9	266.1	305.5	305.5
77.5°	209.6	182.3	164.0	150.4	150.6	150.9	150.6	164.0	182.3	209.6	209.6
80°	142.6	123.2	122.0	121.3	122.6	123.8	122.6	121.3	122.0	123.2	142.6
82.5°	103.6	93.2	94.9	96.3	96.6	96.8	96.6	94.9	93.2	103.6	103.6
85°	57.5	53.8	48.8	44.7	43.5	42.2	43.5	44.7	48.8	53.8	57.5
87.5°	19.9	20.6	22.8	24.0	25.3	24.7	25.3	20.6	22.8	20.6	19.9
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	57.7	46.8	35.9	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	103.8	90.4	72.0	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	166.8	166.8	145.0	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	252.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	304.0	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	355.1	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	427.1	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	498.2	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	545.6	578.3	545.6	512.8



TEST NUMBER: P1427935

CATALOG NUMBER: SQ2W-PH1-K-100U-125D-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: P1427935

CATALOG NUMBER: SQ2W-PH1-K-100U-125D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2958.0	2958.0	2958.0	2958.0
2.5°	2959.5	2979.3	2965.3	2951.3
5°	2902.7	2961.2	2962.4	2963.7
7.5°	2753.5	2832.1	2870.9	2909.6
10°	2656.0	2744.8	2803.6	2862.4
12.5°	2568.1	2665.5	2758.3	2851.1
15°	2441.1	2539.9	2680.0	2820.1
17.5°	2329.1	2416.0	2566.8	2717.7
20°	2267.6	2347.9	2496.8	2645.6
22.5°	2212.0	2283.1	2434.0	2584.8
25°	2112.8	2164.7	2334.8	2504.9
27.5°	2020.6	2054.0	2231.6	2409.2
30°	1959.8	1986.4	2164.0	2341.7
32.5°	1890.0	1909.1	2092.7	2276.4
35°	1800.3	1815.4	2006.7	2198.1
37.5°	1698.8	1705.7	1910.8	2115.9
40°	1626.8	1627.1	1842.3	2057.4
42.5°	1557.7	1564.1	1779.2	1994.4
45°	1443.8	1452.0	1675.9	1899.8
47.5°	1359.8	1361.5	1574.9	1788.3
50°	1308.7	1300.0	1501.4	1702.8
52.5°	1260.0	1236.7	1428.1	1619.5
55°	1184.9	1132.4	1316.3	1500.1
57.5°	1062.2	1025.7	1199.6	1373.5
60°	961.6	956.9	1125.8	1294.7
62.5°	866.3	889.6	1050.5	1211.4
65°	738.3	782.4	928.8	1075.1
67.5°	620.9	670.2	797.8	925.4
70°	545.1	596.7	709.3	821.8
72.5°	465.5	518.4	614.9	711.5
75°	348.1	399.3	476.9	554.5
77.5°	246.2	287.7	344.2	400.8
80°	180.1	218.9	261.4	304.0
82.5°	126.1	150.9	182.4	213.9
85°	60.0	65.7	80.7	95.7
87.5°	21.4	21.7	21.4	21.2
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

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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: P1427935
 CATALOG NUMBER: SQ2W-PH1-K-100U-125D-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	21.12	22.06	22.00	22.96	24.09	19.95	20.89	20.82	21.79	22.92
	3H	23.30	24.15	24.19	25.05	26.21	21.01	21.85	21.89	22.75	23.91
	4H	24.12	24.92	25.02	25.83	27.00	21.25	22.05	22.16	22.96	24.13
	6H	24.59	25.33	25.51	26.24	27.42	21.40	22.13	22.32	23.05	24.23
	8H	24.75	25.44	25.67	26.38	27.56	21.46	22.16	22.38	23.09	24.28
	12H	24.81	25.47	25.74	26.40	27.61	21.48	22.14	22.40	23.07	24.27
4H	2H	21.57	22.36	22.48	23.27	24.44	20.64	21.44	21.55	22.35	23.52
	3H	23.83	24.49	24.75	25.43	26.62	21.88	22.54	22.80	23.49	24.67
	4H	24.70	25.31	25.63	26.24	27.45	22.18	22.78	23.11	23.72	24.93
	6H	25.27	25.79	26.21	26.75	27.96	22.38	22.90	23.32	23.86	25.07
	8H	25.47	25.96	26.42	26.91	28.14	22.47	22.96	23.42	23.91	25.14
	12H	25.56	26.00	26.52	26.97	28.20	22.50	22.94	23.46	23.91	25.14
8H	4H	24.73	25.22	25.68	26.17	27.40	22.41	22.90	23.36	23.85	25.08
	6H	25.36	25.77	26.34	26.76	27.98	22.68	23.08	23.66	24.08	25.30
	8H	25.63	25.98	26.61	26.97	28.21	22.83	23.18	23.81	24.17	25.41
	12H	25.76	26.07	26.75	27.05	28.34	22.90	23.21	23.88	24.19	25.48
12H	4H	24.69	25.13	25.65	26.10	27.33	22.41	22.85	23.38	23.82	25.05
	6H	25.34	25.70	26.32	26.68	27.92	22.72	23.07	23.70	24.06	25.30
	8H	25.62	25.93	26.60	26.91	28.20	22.89	23.20	23.87	24.18	25.46