

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: P1427855

Luminaire Tested: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427855  
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-L830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

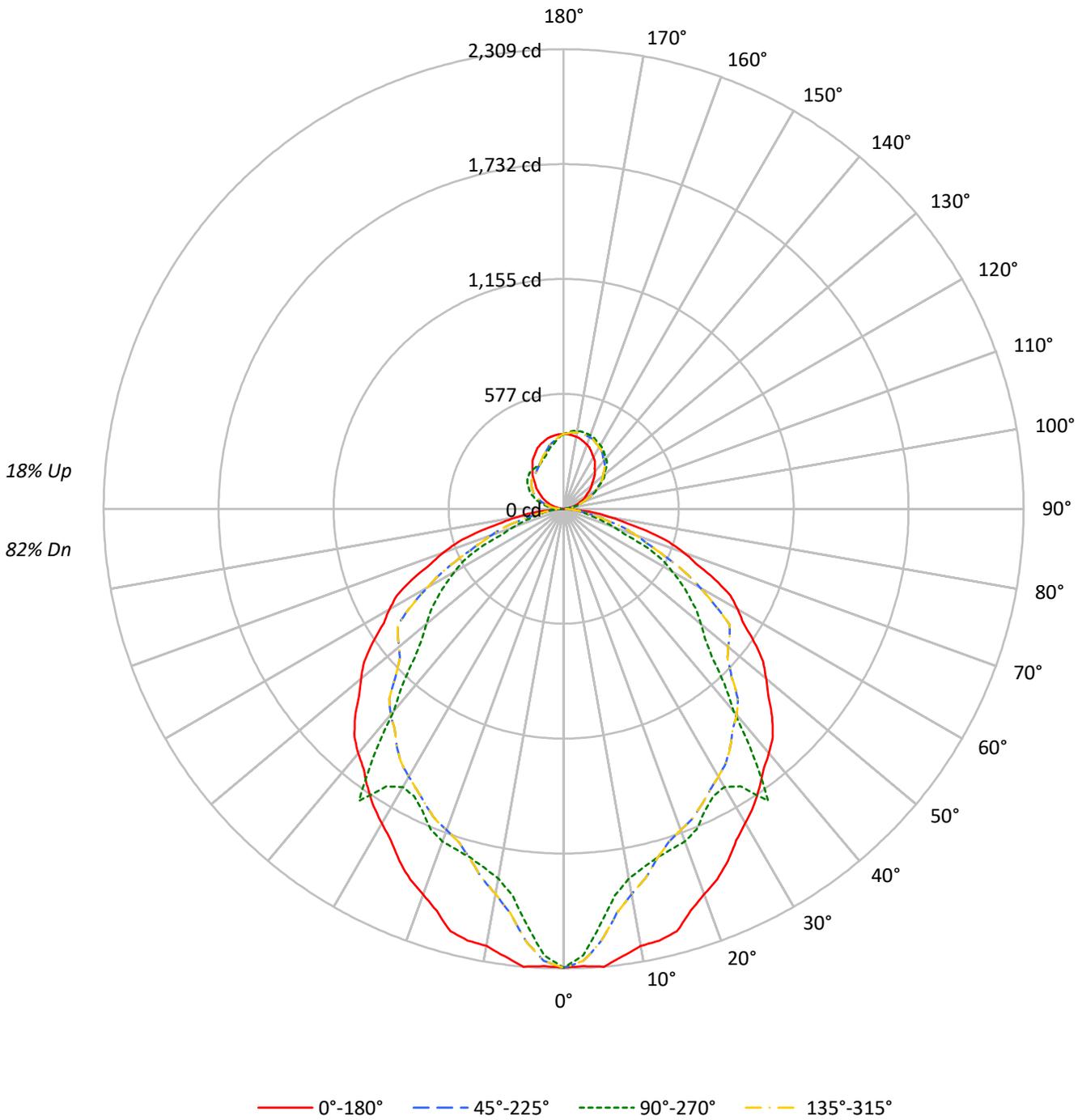
Lumens per Lamp: N/A  
Luminaire Lumens: 6192.1 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	37212	37212	37212	37212
5°	37426	34014	37426	34014
10°	36563	30919	36563	30919
15°	36728	30315	36728	30315
20°	35418	30558	35418	30558
25°	34769	29847	34769	29847
30°	34015	30090	34015	30090
35°	33757	35271	33757	35271
40°	33788	27962	33788	27962
45°	33798	24085	33798	24085
50°	33324	22584	33324	22584
55°	32900	21666	32900	21666
60°	32575	20324	32575	20324
65°	32003	17677	32003	17677
70°	30226	12628	30226	12628
75°	26949	9576	26949	9576
80°	22017	8972	22017	8972
85°	13820	6095	13820	6095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33798 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.8	3.3
10°-20°	533.4	8.6
20°-30°	782.1	12.6
30°-40°	947.0	15.3
40°-50°	931.2	15.0
50°-60°	810.0	13.1
60°-70°	563.4	9.1
70°-80°	267.2	4.3
80°-90°	60.5	1.0
90°-100°	29.8	0.5
100°-110°	87.0	1.4
110°-120°	142.0	2.3
120°-130°	180.2	2.9
130°-140°	192.8	3.1
140°-150°	180.0	2.9
150°-160°	148.1	2.4
160°-170°	99.3	1.6
170°-180°	35.3	0.6
0°-30°	1518.3	24.5
0°-40°	2465.4	39.8
0°-60°	4206.6	67.9
0°-90°	5097.6	82.3
90°-120°	258.8	4.2
90°-150°	811.7	13.1
90°-180°	1094.0	17.7
0°-180°	6192.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2305	2305	2305	2305	2305	
5°	2309	2099	2309	2099	2309	217
15°	2197	1814	2197	1814	2197	613
25°	1952	1675	1952	1675	1952	898
35°	1713	1790	1713	1790	1713	1073
45°	1480	1055	1480	1055	1480	1138
55°	1169	770	1169	770	1169	1044
65°	838	463	838	463	838	823
75°	432	154	432	154	432	458
85°	75	33	75	33	75	100
90°	1	8	1	16	1	3
95°	12	9	12	51	12	14
105°	55	89	55	122	55	59
115°	106	147	106	181	106	104
125°	157	233	157	222	157	140
135°	213	305	213	246	213	165
145°	272	351	272	251	272	170
155°	323	382	323	260	323	149
165°	357	398	357	300	357	101
175°	374	390	374	352	374	35
180°	375	375	375	375	375	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2299.5	2310.4	2321.4	2306.0	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7
5°	2309.2	2308.2	2307.2	2261.7	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6
7.5°	2267.1	2236.9	2206.6	2145.4	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2
10°	2230.2	2184.4	2138.6	2069.4	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9
12.5°	2221.5	2149.1	2076.8	2001.0	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9
15°	2197.3	2088.2	1979.0	1902.0	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9
17.5°	2117.5	2000.0	1882.4	1814.7	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8
20°	2061.4	1945.4	1829.4	1766.8	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8
22.5°	2014.0	1896.5	1778.9	1723.5	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2
25°	1951.7	1819.2	1686.6	1646.2	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3
27.5°	1877.2	1738.8	1600.4	1574.4	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5
30°	1824.5	1686.1	1547.7	1527.0	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3
32.5°	1773.7	1630.6	1487.5	1472.6	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6
35°	1712.7	1563.6	1414.5	1402.8	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9
37.5°	1648.7	1488.8	1329.0	1323.7	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9
40°	1603.1	1435.4	1267.8	1267.5	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9
42.5°	1553.9	1386.3	1218.6	1213.7	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7
45°	1480.2	1305.8	1131.3	1125.0	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6
47.5°	1393.4	1227.1	1060.9	1059.5	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4
50°	1326.7	1169.8	1012.9	1019.7	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6
52.5°	1261.8	1112.7	963.6	981.7	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6
55°	1168.8	1025.6	882.3	923.2	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7
57.5°	1070.2	934.7	799.2	827.6	910.7	894.3	778.5	692.9	698.0	703.1	698.0
60°	1008.8	877.2	745.6	749.3	798.0	782.4	702.5	641.1	635.2	629.4	635.2
62.5°	943.8	818.5	693.2	675.0	692.5	674.2	620.0	577.9	572.1	566.2	572.1
65°	837.7	723.7	609.6	575.3	567.5	541.2	496.3	462.7	462.7	462.7	462.7
67.5°	721.0	621.6	522.2	483.8	465.6	439.5	405.4	374.0	350.6	327.2	350.6
70°	640.3	552.6	464.9	424.7	400.3	369.1	331.1	298.7	283.1	267.5	283.1
72.5°	554.4	479.1	403.9	362.7	332.9	302.5	271.5	243.8	225.8	207.9	225.8
75°	432.0	371.6	311.2	271.2	238.1	207.4	179.1	157.4	155.5	153.5	155.5
77.5°	312.3	268.2	224.2	191.8	163.4	142.0	127.8	117.2	117.3	117.5	117.3
80°	236.8	203.7	170.6	140.3	111.1	96.0	95.0	94.5	95.5	96.5	95.5
82.5°	166.7	142.1	117.5	98.2	80.7	72.6	74.0	75.0	75.2	75.4	75.2
85°	74.6	62.9	51.2	46.8	44.8	41.9	38.0	34.8	33.9	32.9	33.9
87.5°	16.0	15.5	15.1	13.5	11.4	10.3	10.3	10.4	10.4	10.4	10.4
90°	1.1	2.7	4.5	6.1	7.2	7.6	7.6	8.0	8.3	8.3	8.3
92.5°	4.2	6.6	6.7	6.7	8.1	8.8	9.4	9.5	9.8	9.8	9.8
95°	11.7	12.9	19.3	18.9	12.9	10.2	8.7	8.7	8.7	8.7	8.7
97.5°	22.4	24.1	25.1	33.7	35.6	34.4	28.0	23.6	21.1	19.9	21.1
100°	31.8	32.6	34.8	35.2	44.7	53.8	49.2	43.5	41.6	40.5	41.6
102.5°	41.2	41.6	45.1	46.7	48.9	54.1	69.8	68.1	66.8	66.6	66.8
105°	55.3	55.7	62.1	65.1	66.6	66.6	66.3	73.8	85.9	88.6	85.9
107.5°	70.3	72.1	79.7	87.8	89.5	90.0	88.0	86.9	86.4	86.7	86.4
110°	80.6	83.3	92.4	102.6	105.3	106.0	105.3	104.1	103.4	103.4	103.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	90.6	94.5	104.8	116.5	121.0	123.3	121.6	120.8	120.0	120.6	120.0
115°	106.0	111.7	125.3	137.4	146.5	147.7	147.3	147.3	146.9	146.9	146.9
117.5°	120.3	129.3	144.6	158.7	169.2	172.3	173.8	173.3	172.9	173.6	172.9
120°	130.2	140.8	158.3	174.2	184.4	188.9	190.4	189.7	190.4	189.7	190.4
122.5°	140.8	153.9	171.0	187.5	199.5	204.7	206.5	206.7	206.8	206.4	206.8
125°	156.8	172.7	192.7	209.8	222.3	228.3	229.8	230.2	231.0	232.9	231.0
127.5°	172.8	190.8	212.9	229.3	242.1	249.4	251.8	252.6	254.2	255.0	254.2
130°	184.0	204.5	226.8	242.3	254.8	262.8	266.9	268.1	270.0	269.6	270.0
132.5°	195.8	217.2	239.8	256.0	267.5	276.1	279.7	282.9	283.6	284.1	283.6
135°	213.2	236.3	259.0	274.9	285.9	294.2	298.7	301.8	303.7	304.8	303.7
137.5°	231.4	255.8	277.6	291.8	302.8	310.0	315.2	318.4	320.3	321.2	320.3
140°	243.8	267.3	288.5	303.3	313.1	320.3	324.9	328.6	330.9	330.9	330.9
142.5°	255.6	278.8	299.4	314.2	322.8	329.4	334.3	337.1	339.7	339.7	339.7
145°	272.2	295.3	314.3	329.0	336.2	342.3	347.6	349.9	351.4	351.4	351.4
147.5°	289.6	310.0	327.3	341.4	347.5	354.6	358.8	360.6	362.5	361.7	362.5
150°	299.9	318.8	335.5	348.7	354.8	361.6	365.8	367.3	369.2	368.0	369.2
152.5°	309.9	327.9	343.0	355.4	360.5	367.3	372.1	373.6	374.9	374.1	374.9
155°	323.3	339.3	353.3	364.6	369.2	375.6	380.1	382.0	383.6	381.7	383.6
157.5°	335.4	349.1	361.3	371.7	376.6	382.1	386.4	388.7	390.2	389.4	390.2
160°	342.7	355.2	366.1	376.0	380.5	385.4	390.0	392.6	394.2	393.0	394.2
162.5°	348.7	360.0	370.4	379.3	383.2	387.6	393.0	395.4	396.9	395.4	396.9
165°	357.4	366.5	375.6	383.2	386.6	390.0	395.7	398.3	399.5	397.9	399.5
167.5°	364.0	371.0	378.3	384.8	387.3	390.7	396.3	398.5	400.0	398.1	400.0
170°	367.6	373.7	380.1	385.4	387.3	390.4	396.0	397.9	399.1	397.2	399.1
172.5°	370.7	375.2	380.4	385.1	386.1	388.5	393.9	395.8	396.7	395.1	396.7
175°	373.7	376.4	380.1	383.2	382.8	384.3	388.9	390.4	391.9	389.6	391.9
177.5°	375.1	376.4	377.6	379.4	378.2	378.2	381.5	382.4	382.7	381.5	382.7
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2248.3	2255.7	2265.0	2281.8	2306.0	2321.4	2310.4	2299.5	2310.4	2321.4	2306.0
5°	2102.6	2125.7	2155.9	2201.2	2261.7	2307.2	2308.2	2309.2	2308.2	2307.2	2261.7
7.5°	1962.7	1988.1	2021.5	2073.9	2145.4	2206.6	2236.9	2267.1	2236.9	2206.6	2145.4
10°	1885.9	1908.6	1938.8	1992.4	2069.4	2138.6	2184.4	2230.2	2184.4	2138.6	2069.4
12.5°	1836.2	1851.9	1874.3	1924.0	2001.0	2076.8	2149.1	2221.5	2149.1	2076.8	2001.0
15°	1792.1	1793.8	1799.7	1835.7	1902.0	1979.0	2088.2	2197.3	2088.2	1979.0	1902.0
17.5°	1769.3	1756.8	1744.4	1763.7	1814.7	1882.4	2000.0	2117.5	2000.0	1882.4	1814.7
20°	1755.1	1734.6	1711.2	1722.0	1766.8	1829.4	1945.4	2061.4	1945.4	1829.4	1766.8
22.5°	1730.9	1710.1	1684.3	1688.8	1723.5	1778.9	1896.5	2014.0	1896.5	1778.9	1723.5
25°	1681.3	1665.2	1642.8	1636.4	1646.2	1686.6	1819.2	1951.7	1819.2	1686.6	1646.2
27.5°	1622.8	1612.1	1598.5	1585.9	1574.4	1600.4	1738.8	1877.2	1738.8	1600.4	1574.4
30°	1588.7	1575.3	1561.6	1545.5	1527.0	1547.7	1686.1	1824.5	1686.1	1547.7	1527.0
32.5°	1594.5	1563.0	1530.6	1500.5	1472.6	1487.5	1630.6	1773.7	1630.6	1487.5	1472.6
35°	1598.4	1534.3	1480.7	1436.9	1402.8	1414.5	1563.6	1712.7	1563.6	1414.5	1402.8
37.5°	1504.5	1462.3	1416.1	1369.9	1323.7	1329.0	1488.8	1648.7	1488.8	1329.0	1323.7
40°	1467.1	1440.0	1380.6	1323.1	1267.5	1267.8	1435.4	1603.1	1435.4	1267.8	1267.5
42.5°	1432.2	1403.8	1326.4	1263.0	1213.7	1218.6	1386.3	1553.9	1386.3	1218.6	1213.7
45°	1224.4	1230.2	1209.8	1174.7	1125.0	1131.3	1305.8	1480.2	1305.8	1131.3	1125.0
47.5°	1028.5	1071.2	1117.0	1113.1	1059.5	1060.9	1227.1	1393.4	1227.1	1060.9	1059.5
50°	942.0	1002.2	1075.3	1081.1	1019.7	1012.9	1169.8	1326.7	1169.8	1012.9	1019.7
52.5°	870.1	946.6	1043.9	1055.6	981.7	963.6	1112.7	1261.8	1112.7	963.6	981.7
55°	775.6	876.5	1010.0	1025.6	923.2	882.3	1025.6	1168.8	1025.6	882.3	923.2
57.5°	692.9	778.5	894.3	910.7	827.6	799.2	934.7	1070.2	934.7	799.2	827.6
60°	641.1	702.5	782.4	798.0	749.3	745.6	877.2	1008.8	877.2	745.6	749.3
62.5°	577.9	620.0	674.2	692.5	675.0	693.2	818.5	943.8	818.5	693.2	675.0
65°	462.7	496.3	541.2	567.5	575.3	609.6	723.7	837.7	723.7	609.6	575.3
67.5°	374.0	405.4	439.5	465.6	483.8	522.2	621.6	721.0	621.6	522.2	483.8
70°	298.7	331.1	369.1	400.3	424.7	464.9	552.6	640.3	552.6	464.9	424.7
72.5°	243.8	271.5	302.5	332.9	362.7	403.9	479.1	554.4	479.1	403.9	362.7
75°	157.4	179.1	207.4	238.1	271.2	311.2	371.6	432.0	371.6	311.2	271.2
77.5°	117.2	127.8	142.0	163.4	191.8	224.2	268.2	312.3	268.2	224.2	191.8
80°	94.5	95.0	96.0	111.1	140.3	170.6	203.7	236.8	203.7	170.6	140.3
82.5°	75.0	74.0	72.6	80.7	98.2	117.5	142.1	166.7	142.1	117.5	98.2
85°	34.8	38.0	41.9	44.8	46.8	51.2	62.9	74.6	62.9	51.2	46.8
87.5°	10.4	10.3	10.3	11.4	13.5	15.1	15.5	16.0	15.5	15.1	13.6
90°	8.0	7.6	7.6	7.2	6.1	4.5	2.7	1.1	2.7	4.2	6.8
92.5°	9.5	9.4	8.8	8.1	6.7	6.7	6.6	4.2	7.2	10.2	14.7
95°	8.7	8.7	10.2	12.9	18.9	19.3	12.9	11.7	16.7	23.5	29.5
97.5°	23.6	28.0	34.4	35.6	33.7	25.1	24.1	22.4	30.5	37.3	47.0
100°	43.5	49.2	53.8	44.7	35.2	34.8	32.6	31.8	40.5	46.9	56.4
102.5°	68.1	69.8	54.1	48.9	46.7	45.1	41.6	41.2	49.9	58.8	66.7
105°	73.8	66.3	66.6	66.6	65.1	62.1	55.7	55.3	65.1	75.3	85.2
107.5°	86.9	88.0	90.0	89.5	87.8	79.7	72.1	70.3	79.2	91.5	102.3
110°	104.1	105.3	106.0	105.3	102.6	92.4	83.3	80.6	88.6	101.5	113.2



TEST NUMBER: P1427855

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	120.8	121.6	123.3	121.0	116.5	104.8	94.5	90.6	98.6	111.8	123.8
115°	147.3	147.3	147.7	146.5	137.4	125.3	111.7	106.0	112.8	124.9	138.2
117.5°	173.3	173.8	172.3	169.2	158.7	144.6	129.3	120.3	125.6	138.4	152.1
120°	189.7	190.4	188.9	184.4	174.2	158.3	140.8	130.2	134.4	146.9	160.5
122.5°	206.7	206.5	204.7	199.5	187.5	171.0	153.9	140.8	142.6	154.2	167.5
125°	230.2	229.8	228.3	222.3	209.8	192.7	172.7	156.8	154.5	164.3	178.0
127.5°	252.6	251.8	249.4	242.1	229.3	212.9	190.8	172.8	167.7	173.9	186.4
130°	268.1	266.9	262.8	254.8	242.3	226.8	204.5	184.0	176.8	180.6	191.6
132.5°	282.9	279.7	276.1	267.5	256.0	239.8	217.2	195.8	185.9	187.6	196.1
135°	301.8	298.7	294.2	285.9	274.9	259.0	236.3	213.2	199.5	198.0	202.9
137.5°	318.4	315.2	310.0	302.8	291.8	277.6	255.8	231.4	214.2	209.2	211.0
140°	328.6	324.9	320.3	313.1	303.3	288.5	267.3	243.8	224.5	217.3	216.2
142.5°	337.1	334.3	329.4	322.8	314.2	299.4	278.8	255.6	235.1	225.8	223.2
145°	349.9	347.6	342.3	336.2	329.0	314.3	295.3	272.2	251.8	239.7	234.0
147.5°	360.6	358.8	354.6	347.5	341.4	327.3	310.0	289.6	268.6	253.6	246.3
150°	367.3	365.8	361.6	354.8	348.7	335.5	318.8	299.9	279.8	263.9	254.4
152.5°	373.6	372.1	367.3	360.5	355.4	343.0	327.9	309.9	289.5	273.6	263.8
155°	382.0	380.1	375.6	369.2	364.6	353.3	339.3	323.3	305.9	289.3	278.3
157.5°	388.7	386.4	382.1	376.6	371.7	361.3	349.1	335.4	320.2	304.3	293.1
160°	392.6	390.0	385.4	380.5	376.0	366.1	355.2	342.7	328.6	314.3	302.1
162.5°	395.4	393.0	387.6	383.2	379.3	370.4	360.0	348.7	336.2	323.7	312.4
165°	398.3	395.7	390.0	386.6	383.2	375.6	366.5	357.4	346.8	336.6	327.5
167.5°	398.5	396.3	390.7	387.3	384.8	378.3	371.0	364.0	355.8	347.7	340.2
170°	397.9	396.0	390.4	387.3	385.4	380.1	373.7	367.6	361.2	354.4	348.3
172.5°	395.8	393.9	388.5	386.1	385.1	380.4	375.2	370.7	365.1	360.2	355.3
175°	390.4	388.9	384.3	382.8	383.2	380.1	376.4	373.7	370.3	367.3	364.6
177.5°	382.4	381.5	378.2	378.2	379.4	377.6	376.4	375.1	373.6	372.7	371.8
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1427855

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7	2248.3	2255.7	2265.0	2281.8
5°	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6	2102.6	2125.7	2155.9	2201.2
7.5°	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2	1962.7	1988.1	2021.5	2073.9
10°	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9	1885.9	1908.6	1938.8	1992.4
12.5°	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9	1836.2	1851.9	1874.3	1924.0
15°	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9	1792.1	1793.8	1799.7	1835.7
17.5°	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8	1769.3	1756.8	1744.4	1763.7
20°	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8	1755.1	1734.6	1711.2	1722.0
22.5°	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2	1730.9	1710.1	1684.3	1688.8
25°	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3	1681.3	1665.2	1642.8	1636.4
27.5°	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5	1622.8	1612.1	1598.5	1585.9
30°	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3	1588.7	1575.3	1561.6	1545.5
32.5°	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6	1594.5	1563.0	1530.6	1500.5
35°	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9	1598.4	1534.3	1480.7	1436.9
37.5°	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9	1504.5	1462.3	1416.1	1369.9
40°	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9	1467.1	1440.0	1380.6	1323.1
42.5°	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7	1432.2	1403.8	1326.4	1263.0
45°	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6	1224.4	1230.2	1209.8	1174.7
47.5°	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4	1028.5	1071.2	1117.0	1113.1
50°	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6	942.0	1002.2	1075.3	1081.1
52.5°	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6	870.1	946.6	1043.9	1055.6
55°	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7	775.6	876.5	1010.0	1025.6
57.5°	910.7	894.3	778.5	692.9	698.0	703.1	698.0	692.9	778.5	894.3	910.7
60°	798.0	782.4	702.5	641.1	635.2	629.4	635.2	641.1	702.5	782.4	798.0
62.5°	692.5	674.2	620.0	577.9	572.1	566.2	572.1	577.9	620.0	674.2	692.5
65°	567.5	541.2	496.3	462.7	462.7	462.7	462.7	462.7	496.3	541.2	567.5
67.5°	465.6	439.5	405.4	374.0	350.6	327.2	350.6	374.0	405.4	439.5	465.6
70°	400.3	369.1	331.1	298.7	283.1	267.5	283.1	298.7	331.1	369.1	400.3
72.5°	332.9	302.5	271.5	243.8	225.8	207.9	225.8	243.8	271.5	302.5	332.9
75°	238.1	207.4	179.1	157.4	155.5	153.5	155.5	157.4	179.1	207.4	238.1
77.5°	163.4	142.0	127.8	117.2	117.3	117.5	117.3	117.2	127.8	142.0	163.4
80°	111.1	96.0	95.0	94.5	95.5	96.5	95.5	94.5	95.0	96.0	111.1
82.5°	80.7	72.6	74.0	75.0	75.2	75.4	75.2	75.0	74.0	72.6	80.7
85°	44.8	41.9	38.0	34.8	33.9	32.9	33.9	34.8	38.0	41.9	44.8
87.5°	11.7	11.0	11.6	11.9	12.2	12.0	12.2	11.9	11.6	11.0	11.7
90°	8.7	11.4	14.0	15.5	17.0	16.3	17.0	15.5	14.0	11.4	8.7
92.5°	17.5	22.0	25.2	27.9	29.2	29.0	29.2	27.9	25.2	22.0	17.5
95°	35.2	40.5	45.8	49.6	51.9	51.1	51.9	49.6	45.8	40.5	35.2
97.5°	54.3	61.4	67.3	70.9	73.2	74.7	73.2	70.9	67.3	61.4	54.3
100°	67.0	73.8	80.6	84.8	88.6	90.1	88.6	84.8	80.6	73.8	67.0
102.5°	77.3	86.3	93.7	98.1	101.3	102.8	101.3	98.1	93.7	86.3	77.3
105°	94.3	103.7	111.7	117.4	120.8	121.9	120.8	117.4	111.7	103.7	94.3
107.5°	111.2	121.0	128.4	134.6	138.8	141.2	138.8	134.6	128.4	121.0	111.2
110°	124.6	132.5	140.5	146.2	150.3	151.8	150.3	146.2	140.5	132.5	124.6



TEST NUMBER: P1427855

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	135.8	144.6	152.6	158.3	163.0	165.2	163.0	158.3	152.6	144.6	135.8
115°	151.5	163.2	170.4	175.7	179.1	181.0	179.1	175.7	170.4	163.2	151.5
117.5°	164.5	176.7	184.6	188.7	190.3	191.7	190.3	188.7	184.6	176.7	164.5
120°	172.7	184.0	193.1	198.4	200.3	201.1	200.3	198.4	193.1	184.0	172.7
122.5°	180.2	191.0	199.8	206.3	209.4	210.1	209.4	206.3	199.8	191.0	180.2
125°	190.8	201.1	210.1	216.6	220.0	221.9	220.0	216.6	210.1	201.1	190.8
127.5°	200.1	211.1	219.5	225.3	228.6	230.1	228.6	225.3	219.5	211.1	200.1
130°	205.2	216.6	224.9	231.3	234.4	235.9	234.4	231.3	224.9	216.6	205.2
132.5°	209.2	221.1	229.8	235.6	238.9	240.4	238.9	235.6	229.8	221.1	209.2
135°	213.9	226.4	235.5	241.2	244.2	245.7	244.2	241.2	235.5	226.4	213.9
137.5°	218.1	229.4	238.9	244.9	247.6	248.6	247.6	244.9	238.9	229.4	218.1
140°	221.1	231.0	240.4	246.1	249.1	249.5	249.1	246.1	240.4	231.0	221.1
142.5°	225.1	232.8	241.0	246.7	249.7	250.4	249.7	246.7	241.0	232.8	225.1
145°	232.1	236.6	242.3	247.6	250.3	251.0	250.3	247.6	242.3	236.6	232.1
147.5°	241.0	242.4	245.4	248.8	251.4	251.9	251.4	248.8	245.4	242.4	241.0
150°	247.6	247.2	248.4	250.7	252.9	252.5	252.9	250.7	248.4	247.2	247.6
152.5°	255.2	253.0	252.9	254.0	255.0	255.0	255.0	254.0	252.9	253.0	255.2
155°	268.1	263.9	261.6	260.9	260.9	260.5	260.9	260.9	261.6	263.9	268.1
157.5°	282.2	276.4	273.0	271.2	270.6	269.8	270.6	271.2	273.0	276.4	282.2
160°	291.9	285.5	282.1	279.0	277.9	276.8	277.9	279.0	282.1	285.5	291.9
162.5°	301.0	294.9	291.2	288.4	287.3	285.6	287.3	288.4	291.2	294.9	301.0
165°	315.8	309.3	305.2	302.9	301.4	299.9	301.4	302.9	305.2	309.3	315.8
167.5°	330.5	323.5	320.8	318.2	316.8	314.0	316.8	318.2	320.8	323.5	330.5
170°	339.6	333.2	331.7	329.4	326.8	323.7	326.8	329.4	331.7	333.2	339.6
172.5°	347.5	343.2	341.7	339.4	338.6	336.1	338.6	339.4	341.7	343.2	347.5
175°	358.9	355.5	355.5	355.2	354.0	351.7	354.0	355.2	355.5	355.5	358.9
177.5°	368.5	366.7	367.9	367.9	367.6	365.5	367.6	367.9	367.9	366.7	368.5
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1427855

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2304.8	2304.8	2304.8	2304.8
2.5°	2306.0	2321.4	2310.4	2299.5
5°	2261.7	2307.2	2308.2	2309.2
7.5°	2145.4	2206.6	2236.9	2267.1
10°	2069.4	2138.6	2184.4	2230.2
12.5°	2001.0	2076.8	2149.1	2221.5
15°	1902.0	1979.0	2088.2	2197.3
17.5°	1814.7	1882.4	2000.0	2117.5
20°	1766.8	1829.4	1945.4	2061.4
22.5°	1723.5	1778.9	1896.5	2014.0
25°	1646.2	1686.6	1819.2	1951.7
27.5°	1574.4	1600.4	1738.8	1877.2
30°	1527.0	1547.7	1686.1	1824.5
32.5°	1472.6	1487.5	1630.6	1773.7
35°	1402.8	1414.5	1563.6	1712.7
37.5°	1323.7	1329.0	1488.8	1648.7
40°	1267.5	1267.8	1435.4	1603.1
42.5°	1213.7	1218.6	1386.3	1553.9
45°	1125.0	1131.3	1305.8	1480.2
47.5°	1059.5	1060.9	1227.1	1393.4
50°	1019.7	1012.9	1169.8	1326.7
52.5°	981.7	963.6	1112.7	1261.8
55°	923.2	882.3	1025.6	1168.8
57.5°	827.6	799.2	934.7	1070.2
60°	749.3	745.6	877.2	1008.8
62.5°	675.0	693.2	818.5	943.8
65°	575.3	609.6	723.7	837.7
67.5°	483.8	522.2	621.6	721.0
70°	424.7	464.9	552.6	640.3
72.5°	362.7	403.9	479.1	554.4
75°	271.2	311.2	371.6	432.0
77.5°	191.8	224.2	268.2	312.3
80°	140.3	170.6	203.7	236.8
82.5°	98.2	117.5	142.1	166.7
85°	46.8	51.2	62.9	74.6
87.5°	13.6	15.1	15.5	16.0
90°	6.8	4.2	2.7	1.1
92.5°	14.7	10.2	7.2	4.2
95°	29.5	23.5	16.7	11.7
97.5°	47.0	37.3	30.5	22.4
100°	56.4	46.9	40.5	31.8
102.5°	66.7	58.8	49.9	41.2
105°	85.2	75.3	65.1	55.3
107.5°	102.3	91.5	79.2	70.3
110°	113.2	101.5	88.6	80.6



TEST NUMBER: P1427855

CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	123.8	111.8	98.6	90.6
115°	138.2	124.9	112.8	106.0
117.5°	152.1	138.4	125.6	120.3
120°	160.5	146.9	134.4	130.2
122.5°	167.5	154.2	142.6	140.8
125°	178.0	164.3	154.5	156.8
127.5°	186.4	173.9	167.7	172.8
130°	191.6	180.6	176.8	184.0
132.5°	196.1	187.6	185.9	195.8
135°	202.9	198.0	199.5	213.2
137.5°	211.0	209.2	214.2	231.4
140°	216.2	217.3	224.5	243.8
142.5°	223.2	225.8	235.1	255.6
145°	234.0	239.7	251.8	272.2
147.5°	246.3	253.6	268.6	289.6
150°	254.4	263.9	279.8	299.9
152.5°	263.8	273.6	289.5	309.9
155°	278.3	289.3	305.9	323.3
157.5°	293.1	304.3	320.2	335.4
160°	302.1	314.3	328.6	342.7
162.5°	312.4	323.7	336.2	348.7
165°	327.5	336.6	346.8	357.4
167.5°	340.2	347.7	355.8	364.0
170°	348.3	354.4	361.2	367.6
172.5°	355.3	360.2	365.1	370.7
175°	364.6	367.3	370.3	373.7
177.5°	371.8	372.7	373.6	375.1
180°	374.8	374.8	374.8	374.8



TEST NUMBER: P1427855  
 CATALOG NUMBER: SQ2W-PH1-K-025U-100D-L830-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.03	23.27	22.65	23.90	24.62	20.86	22.10	21.48	22.73	23.45
	3H	24.24	25.35	24.87	25.99	26.75	21.94	23.05	22.58	23.69	24.45
	4H	25.07	26.11	25.72	26.77	27.54	22.20	23.25	22.86	23.90	24.67
	6H	25.55	26.52	26.22	27.18	27.97	22.36	23.33	23.03	23.99	24.78
	8H	25.72	26.64	26.40	27.32	28.11	22.43	23.35	23.11	24.04	24.82
	12H	25.79	26.67	26.47	27.34	28.16	22.46	23.33	23.14	24.01	24.83
4H	2H	22.51	23.56	23.17	24.21	24.98	21.59	22.64	22.25	23.29	24.06
	3H	24.80	25.67	25.47	26.36	27.15	22.86	23.73	23.53	24.42	25.21
	4H	25.69	26.48	26.38	27.17	27.99	23.16	23.95	23.85	24.65	25.47
	6H	26.27	26.95	26.98	27.67	28.50	23.38	24.06	24.09	24.79	25.62
	8H	26.48	27.12	27.19	27.84	28.68	23.48	24.12	24.19	24.84	25.68
	12H	26.58	27.15	27.32	27.90	28.75	23.52	24.09	24.25	24.84	25.68
8H	4H	25.74	26.38	26.45	27.10	27.94	23.42	24.06	24.13	24.78	25.62
	6H	26.39	26.91	27.13	27.68	28.52	23.70	24.23	24.45	24.99	25.84
	8H	26.65	27.12	27.41	27.89	28.75	23.85	24.32	24.61	25.09	25.95
	12H	26.80	27.21	27.56	27.97	28.89	23.94	24.35	24.69	25.10	26.02
12H	4H	25.71	26.28	26.44	27.03	27.87	23.44	24.01	24.17	24.75	25.60
	6H	26.37	26.84	27.12	27.60	28.46	23.74	24.21	24.50	24.98	25.84
	8H	26.65	27.07	27.41	27.82	28.74	23.92	24.34	24.68	25.09	26.01