

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: P1428385

Luminaire Tested: SQ2W-PW1-K-050U-100D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428385  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-050U-100D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES 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**

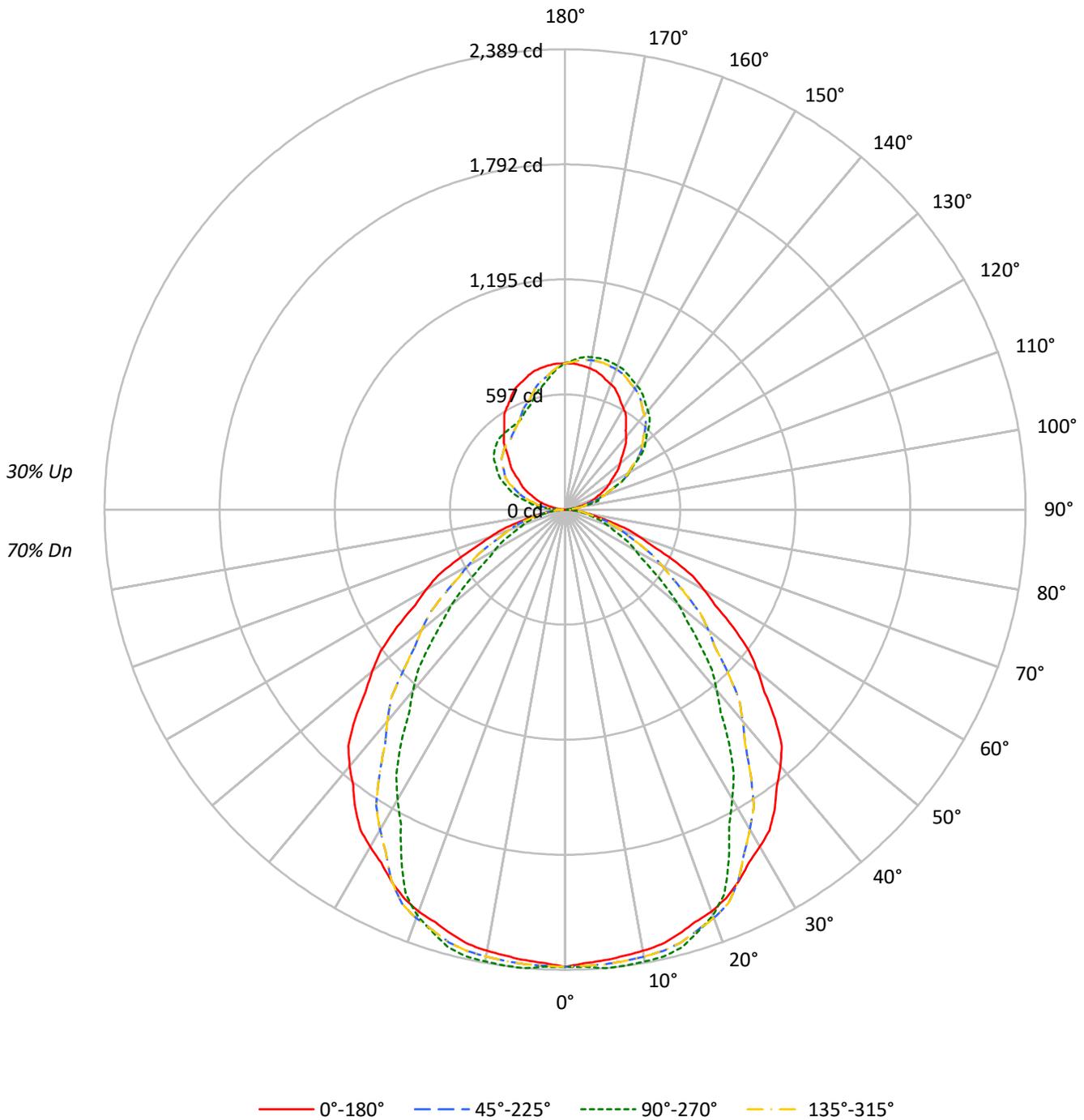
Lumens per Lamp: N/A  
Luminaire Lumens: 7484.6 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.5  
Input Voltage (V): 120  
Input Current (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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CATALOG NUMBER: SQ2W-PW1-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	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	99	95	92	98	94	91	88	84	82	80	76	74	72	67	66	65	61				
2	95	87	82	77	89	83	78	73	75	71	67	67	64	61	60	58	56	52				
3	87	78	70	65	82	74	67	62	67	62	58	60	56	53	54	51	48	45				
4	80	69	62	56	75	66	59	54	60	54	50	54	50	46	49	45	42	39				
5	74	62	54	48	70	59	52	47	54	48	44	49	44	40	44	41	37	35				
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	33	31				
7	63	51	43	38	60	49	42	37	45	39	34	41	36	32	37	33	30	28				
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	34	30	27	25				
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23				
10	52	40	32	27	49	38	31	27	35	29	25	32	27	24	30	26	23	21				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	38320	38320	38320	38320
5°	38063	38722	38063	38722
10°	38132	39059	38132	39059
15°	38122	39294	38122	39294
20°	38138	38527	38138	38527
25°	37933	35799	37933	35799
30°	37674	32365	37674	32365
35°	37380	29226	37380	29226
40°	36635	25821	36635	25821
45°	35200	22555	35200	22555
50°	32759	19303	32759	19303
55°	29967	15654	29967	15654
60°	26860	13504	26860	13504
65°	23488	12004	23488	12004
70°	19208	10886	19208	10886
75°	14947	10012	14947	10012
80°	11139	8824	11139	8824
85°	7540	5020	7540	5020

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 35200 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	3.0
10°-20°	654.8	8.7
20°-30°	963.7	12.9
30°-40°	1053.6	14.1
40°-50°	945.2	12.6
50°-60°	705.1	9.4
60°-70°	445.6	6.0
70°-80°	220.8	2.9
80°-90°	54.8	0.7
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°	1844.5	24.6
0°-40°	2898.1	38.7
0°-60°	4548.4	60.8
0°-90°	5269.6	70.4
90°-120°	523.8	7.0
90°-150°	1642.8	21.9
90°-180°	2215.0	29.6
0°-180°	7484.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2373	2373	2373	2373	2373	
5°	2348	2389	2348	2389	2348	223
15°	2281	2351	2281	2351	2281	644
25°	2129	2010	2129	2010	2129	981
35°	1896	1483	1896	1483	1896	1183
45°	1542	988	1542	988	1542	1182
55°	1065	556	1065	556	1065	951
65°	615	314	615	314	615	609
75°	240	160	240	160	240	264
85°	41	27	41	27	41	52
90°	2	17	2	33	2	3
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2357.1	2370.8	2384.4	2381.2	2372.4	2368.4	2369.2	2370.4	2372.8	2375.2	2372.8
5°	2348.5	2365.6	2382.7	2380.2	2371.1	2367.1	2368.1	2371.1	2380.2	2389.2	2380.2
7.5°	2336.8	2354.1	2371.3	2370.5	2363.7	2362.0	2365.4	2370.2	2379.0	2387.9	2379.0
10°	2325.9	2344.0	2362.1	2362.1	2356.1	2355.6	2360.6	2366.4	2374.4	2382.4	2374.4
12.5°	2311.5	2330.4	2349.2	2350.6	2346.2	2346.9	2352.8	2359.1	2367.2	2375.2	2367.2
15°	2280.7	2300.8	2320.9	2325.2	2324.2	2327.2	2334.2	2340.7	2345.8	2350.8	2345.8
17.5°	2245.0	2265.1	2285.2	2289.2	2287.8	2288.0	2289.8	2291.7	2294.1	2296.5	2294.1
20°	2219.7	2239.8	2259.9	2262.6	2259.6	2254.6	2247.6	2242.3	2242.3	2242.3	2242.3
22.5°	2183.5	2205.2	2226.9	2227.1	2220.0	2207.0	2187.9	2172.0	2165.5	2159.1	2165.5
25°	2129.3	2150.4	2171.5	2161.7	2141.6	2111.9	2072.8	2039.6	2024.5	2009.5	2024.5
27.5°	2066.0	2083.1	2100.1	2074.6	2034.8	1987.1	1931.4	1884.5	1863.6	1842.7	1863.6
30°	2020.8	2033.8	2046.9	2006.5	1948.2	1888.4	1827.1	1776.2	1756.1	1736.0	1756.1
32.5°	1973.8	1978.8	1983.8	1930.5	1857.8	1789.6	1725.9	1672.7	1651.0	1629.3	1651.0
35°	1896.5	1887.4	1878.4	1807.5	1716.1	1638.3	1574.0	1521.0	1501.9	1482.8	1501.9
37.5°	1805.1	1778.2	1751.3	1671.5	1574.0	1491.6	1424.3	1368.6	1347.5	1326.4	1347.5
40°	1738.2	1700.1	1661.9	1576.2	1474.8	1390.4	1323.1	1267.3	1246.2	1225.1	1246.2
42.5°	1664.1	1616.3	1568.5	1480.4	1378.9	1294.5	1227.2	1171.3	1149.4	1127.5	1149.4
45°	1541.6	1485.3	1429.1	1337.4	1233.9	1149.5	1084.2	1030.0	1008.9	987.8	1008.9
47.5°	1403.7	1347.8	1292.0	1200.6	1097.3	1014.0	950.7	898.7	880.6	862.6	880.6
50°	1304.2	1250.0	1195.7	1108.3	1009.9	929.0	865.7	812.7	790.6	768.5	790.6
52.5°	1203.0	1154.4	1105.7	1021.5	925.5	845.0	780.1	723.9	693.8	663.6	693.8
55°	1064.6	1018.4	972.2	892.8	802.4	721.1	648.7	590.2	573.1	556.1	573.1
57.5°	922.2	882.3	842.3	770.9	689.2	615.4	549.7	496.9	482.9	468.8	482.9
60°	831.8	796.7	761.5	693.2	613.8	546.5	491.3	446.3	432.2	418.2	432.2
62.5°	745.0	713.9	682.7	617.2	540.3	479.8	435.8	399.9	388.2	376.6	388.2
65°	614.8	591.7	568.6	514.6	450.3	400.1	363.9	334.3	324.2	314.2	324.2
67.5°	488.2	475.4	462.5	422.1	372.5	331.8	300.0	274.6	267.9	261.3	267.9
70°	406.9	402.8	398.8	365.4	322.2	287.6	261.5	240.6	235.6	230.6	235.6
72.5°	336.3	338.0	339.6	311.8	274.2	245.2	224.7	208.5	205.0	201.6	205.0
75°	239.6	247.6	255.7	237.3	210.2	189.6	175.6	164.5	162.5	160.5	162.5
77.5°	163.2	175.3	187.3	175.4	155.5	140.3	129.9	121.7	120.1	118.4	120.1
80°	119.8	131.9	143.9	135.6	120.6	109.0	101.0	94.9	94.9	94.9	94.9
82.5°	83.6	93.3	102.9	97.0	86.0	78.5	74.4	71.4	71.4	71.4	71.4
85°	40.7	45.7	50.7	49.0	45.0	39.9	33.9	29.1	28.1	27.1	28.1
87.5°	11.3	14.3	17.5	15.7	12.2	9.9	9.1	8.6	8.8	8.8	8.8
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



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**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°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2370.4	2369.2	2368.4	2372.4	2381.2	2384.4	2370.8	2357.1	2370.8	2384.4	2381.2
5°	2371.1	2368.1	2367.1	2371.1	2380.2	2382.7	2365.6	2348.5	2365.6	2382.7	2380.2
7.5°	2370.2	2365.4	2362.0	2363.7	2370.5	2371.3	2354.1	2336.8	2354.1	2371.3	2370.5
10°	2366.4	2360.6	2355.6	2356.1	2362.1	2362.1	2344.0	2325.9	2344.0	2362.1	2362.1
12.5°	2359.1	2352.8	2346.9	2346.2	2350.6	2349.2	2330.4	2311.5	2330.4	2349.2	2350.6
15°	2340.7	2334.2	2327.2	2324.2	2325.2	2320.9	2300.8	2280.7	2300.8	2320.9	2325.2
17.5°	2291.7	2289.8	2288.0	2287.8	2289.2	2285.2	2265.1	2245.0	2265.1	2285.2	2289.2
20°	2242.3	2247.6	2254.6	2259.6	2262.6	2259.9	2239.8	2219.7	2239.8	2259.9	2262.6
22.5°	2172.0	2187.9	2207.0	2220.0	2227.1	2226.9	2205.2	2183.5	2205.2	2226.9	2227.1
25°	2039.6	2072.8	2111.9	2141.6	2161.7	2171.5	2150.4	2129.3	2150.4	2171.5	2161.7
27.5°	1884.5	1931.4	1987.1	2034.8	2074.6	2100.1	2083.1	2066.0	2083.1	2100.1	2074.6
30°	1776.2	1827.1	1888.4	1948.2	2006.5	2046.9	2033.8	2020.8	2033.8	2046.9	2006.5
32.5°	1672.7	1725.9	1789.6	1857.8	1930.5	1983.8	1978.8	1973.8	1978.8	1983.8	1930.5
35°	1521.0	1574.0	1638.3	1716.1	1807.5	1878.4	1887.4	1896.5	1887.4	1878.4	1807.5
37.5°	1368.6	1424.3	1491.6	1574.0	1671.5	1751.3	1778.2	1805.1	1778.2	1751.3	1671.5
40°	1267.3	1323.1	1390.4	1474.8	1576.2	1661.9	1700.1	1738.2	1700.1	1661.9	1576.2
42.5°	1171.3	1227.2	1294.5	1378.9	1480.4	1568.5	1616.3	1664.1	1616.3	1568.5	1480.4
45°	1030.0	1084.2	1149.5	1233.9	1337.4	1429.1	1485.3	1541.6	1485.3	1429.1	1337.4
47.5°	898.7	950.7	1014.0	1097.3	1200.6	1292.0	1347.8	1403.7	1347.8	1292.0	1200.6
50°	812.7	865.7	929.0	1009.9	1108.3	1195.7	1250.0	1304.2	1250.0	1195.7	1108.3
52.5°	723.9	780.1	845.0	925.5	1021.5	1105.7	1154.4	1203.0	1154.4	1105.7	1021.5
55°	590.2	648.7	721.1	802.4	892.8	972.2	1018.4	1064.6	1018.4	972.2	892.8
57.5°	496.9	549.7	615.4	689.2	770.9	842.3	882.3	922.2	882.3	842.3	770.9
60°	446.3	491.3	546.5	613.8	693.2	761.5	796.7	831.8	796.7	761.5	693.2
62.5°	399.9	435.8	479.8	540.3	617.2	682.7	713.9	745.0	713.9	682.7	617.2
65°	334.3	363.9	400.1	450.3	514.6	568.6	591.7	614.8	591.7	568.6	514.6
67.5°	274.6	300.0	331.8	372.5	422.1	462.5	475.4	488.2	475.4	462.5	422.1
70°	240.6	261.5	287.6	322.2	365.4	398.8	402.8	406.9	402.8	398.8	365.4
72.5°	208.5	224.7	245.2	274.2	311.8	339.6	338.0	336.3	338.0	339.6	311.8
75°	164.5	175.6	189.6	210.2	237.3	255.7	247.6	239.6	247.6	255.7	237.3
77.5°	121.7	129.9	140.3	155.5	175.4	187.3	175.3	163.2	175.3	187.3	175.4
80°	94.9	101.0	109.0	120.6	135.6	143.9	131.9	119.8	131.9	143.9	135.6
82.5°	71.4	74.4	78.5	86.0	97.0	102.9	93.3	83.6	93.3	102.9	97.0
85°	29.1	33.9	39.9	45.0	49.0	50.7	45.7	40.7	45.7	50.7	49.0
87.5°	8.6	9.1	9.9	12.2	15.7	17.5	14.3	11.3	14.3	17.4	16.0
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: P1428385

CATALOG NUMBER: SQ2W-PW1-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: P1428385

CATALOG NUMBER: SQ2W-PW1-K-050U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4	2373.4
2.5°	2372.4	2368.4	2369.2	2370.4	2372.8	2375.2	2372.8	2370.4	2369.2	2368.4	2372.4
5°	2371.1	2367.1	2368.1	2371.1	2380.2	2389.2	2380.2	2371.1	2368.1	2367.1	2371.1
7.5°	2363.7	2362.0	2365.4	2370.2	2379.0	2387.9	2379.0	2370.2	2365.4	2362.0	2363.7
10°	2356.1	2355.6	2360.6	2366.4	2374.4	2382.4	2374.4	2366.4	2360.6	2355.6	2356.1
12.5°	2346.2	2346.9	2352.8	2359.1	2367.2	2375.2	2367.2	2359.1	2352.8	2346.9	2346.2
15°	2324.2	2327.2	2334.2	2340.7	2345.8	2350.8	2345.8	2340.7	2334.2	2327.2	2324.2
17.5°	2287.8	2288.0	2289.8	2291.7	2294.1	2296.5	2294.1	2291.7	2289.8	2288.0	2287.8
20°	2259.6	2254.6	2247.6	2242.3	2242.3	2242.3	2242.3	2242.3	2247.6	2254.6	2259.6
22.5°	2220.0	2207.0	2187.9	2172.0	2165.5	2159.1	2165.5	2172.0	2187.9	2207.0	2220.0
25°	2141.6	2111.9	2072.8	2039.6	2024.5	2009.5	2024.5	2039.6	2072.8	2111.9	2141.6
27.5°	2034.8	1987.1	1931.4	1884.5	1863.6	1842.7	1863.6	1884.5	1931.4	1987.1	2034.8
30°	1948.2	1888.4	1827.1	1776.2	1756.1	1736.0	1756.1	1776.2	1827.1	1888.4	1948.2
32.5°	1857.8	1789.6	1725.9	1672.7	1651.0	1629.3	1651.0	1672.7	1725.9	1789.6	1857.8
35°	1716.1	1638.3	1574.0	1521.0	1501.9	1482.8	1501.9	1521.0	1574.0	1638.3	1716.1
37.5°	1574.0	1491.6	1424.3	1368.6	1347.5	1326.4	1347.5	1368.6	1424.3	1491.6	1574.0
40°	1474.8	1390.4	1323.1	1267.3	1246.2	1225.1	1246.2	1267.3	1323.1	1390.4	1474.8
42.5°	1378.9	1294.5	1227.2	1171.3	1149.4	1127.5	1149.4	1171.3	1227.2	1294.5	1378.9
45°	1233.9	1149.5	1084.2	1030.0	1008.9	987.8	1008.9	1030.0	1084.2	1149.5	1233.9
47.5°	1097.3	1014.0	950.7	898.7	880.6	862.6	880.6	950.7	1014.0	1097.3	1097.3
50°	1009.9	929.0	865.7	812.7	790.6	768.5	790.6	812.7	865.7	929.0	1009.9
52.5°	925.5	845.0	780.1	723.9	693.8	663.6	693.8	723.9	780.1	845.0	925.5
55°	802.4	721.1	648.7	590.2	573.1	556.1	573.1	590.2	648.7	721.1	802.4
57.5°	689.2	615.4	549.7	496.9	482.9	468.8	482.9	496.9	549.7	615.4	689.2
60°	613.8	546.5	491.3	446.3	432.2	418.2	432.2	446.3	491.3	546.5	613.8
62.5°	540.3	479.8	435.8	399.9	388.2	376.6	388.2	399.9	435.8	479.8	540.3
65°	450.3	400.1	363.9	334.3	324.2	314.2	324.2	334.3	363.9	400.1	450.3
67.5°	372.5	331.8	300.0	274.6	267.9	261.3	267.9	274.6	300.0	331.8	372.5
70°	322.2	287.6	261.5	240.6	235.6	230.6	235.6	240.6	261.5	287.6	322.2
72.5°	274.2	245.2	224.7	208.5	205.0	201.6	205.0	208.5	224.7	245.2	274.2
75°	210.2	189.6	175.6	164.5	162.5	160.5	162.5	164.5	175.6	189.6	210.2
77.5°	155.5	140.3	129.9	121.7	120.1	118.4	120.1	121.7	129.9	140.3	155.5
80°	120.6	109.0	101.0	94.9	94.9	94.9	94.9	94.9	101.0	109.0	120.6
82.5°	86.0	78.5	74.4	71.4	71.4	71.4	71.4	71.4	74.4	78.5	86.0
85°	45.0	39.9	33.9	29.1	28.1	27.1	28.1	29.1	33.9	39.9	45.0
87.5°	12.8	11.4	11.7	11.7	12.3	12.0	12.3	11.7	11.7	11.4	12.8
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: P1428385

CATALOG NUMBER: SQ2W-PW1-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: P1428385

CATALOG NUMBER: SQ2W-PW1-K-050U-100D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2373.4	2373.4	2373.4	2373.4
2.5°	2381.2	2384.4	2370.8	2357.1
5°	2380.2	2382.7	2365.6	2348.5
7.5°	2370.5	2371.3	2354.1	2336.8
10°	2362.1	2362.1	2344.0	2325.9
12.5°	2350.6	2349.2	2330.4	2311.5
15°	2325.2	2320.9	2300.8	2280.7
17.5°	2289.2	2285.2	2265.1	2245.0
20°	2262.6	2259.9	2239.8	2219.7
22.5°	2227.1	2226.9	2205.2	2183.5
25°	2161.7	2171.5	2150.4	2129.3
27.5°	2074.6	2100.1	2083.1	2066.0
30°	2006.5	2046.9	2033.8	2020.8
32.5°	1930.5	1983.8	1978.8	1973.8
35°	1807.5	1878.4	1887.4	1896.5
37.5°	1671.5	1751.3	1778.2	1805.1
40°	1576.2	1661.9	1700.1	1738.2
42.5°	1480.4	1568.5	1616.3	1664.1
45°	1337.4	1429.1	1485.3	1541.6
47.5°	1200.6	1292.0	1347.8	1403.7
50°	1108.3	1195.7	1250.0	1304.2
52.5°	1021.5	1105.7	1154.4	1203.0
55°	892.8	972.2	1018.4	1064.6
57.5°	770.9	842.3	882.3	922.2
60°	693.2	761.5	796.7	831.8
62.5°	617.2	682.7	713.9	745.0
65°	514.6	568.6	591.7	614.8
67.5°	422.1	462.5	475.4	488.2
70°	365.4	398.8	402.8	406.9
72.5°	311.8	339.6	338.0	336.3
75°	237.3	255.7	247.6	239.6
77.5°	175.4	187.3	175.3	163.2
80°	135.6	143.9	131.9	119.8
82.5°	97.0	102.9	93.3	83.6
85°	49.0	50.7	45.7	40.7
87.5°	16.0	17.4	14.3	11.3
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: P1428385

CATALOG NUMBER: SQ2W-PW1-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: P1428385  
 CATALOG NUMBER: SQ2W-PW1-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	21.31	22.33	22.08	23.12	24.07	17.56	18.58	18.33	19.36	20.31
	3H	22.63	23.54	23.41	24.33	25.31	18.84	19.75	19.62	20.55	21.53
	4H	23.04	23.90	23.84	24.70	25.70	19.36	20.21	20.16	21.02	22.01
	6H	23.23	24.02	24.04	24.83	25.84	19.67	20.46	20.48	21.27	22.28
	8H	23.28	24.03	24.10	24.86	25.86	19.79	20.54	20.61	21.37	22.38
	12H	23.28	24.00	24.11	24.82	25.85	19.82	20.54	20.65	21.36	22.40
4H	2H	21.46	22.32	22.27	23.12	24.12	18.39	19.25	19.19	20.05	21.04
	3H	23.02	23.73	23.83	24.57	25.57	19.85	20.56	20.67	21.40	22.41
	4H	23.57	24.21	24.40	25.05	26.09	20.43	21.08	21.26	21.92	22.95
	6H	23.89	24.45	24.73	25.31	26.35	20.83	21.38	21.67	22.24	23.29
	8H	23.98	24.50	24.83	25.36	26.41	20.98	21.50	21.83	22.36	23.41
	12H	24.01	24.48	24.88	25.35	26.41	21.03	21.50	21.90	22.37	23.43
8H	4H	23.62	24.14	24.47	24.99	26.05	20.79	21.31	21.64	22.16	23.22
	6H	24.05	24.48	24.92	25.37	26.43	21.29	21.72	22.16	22.61	23.67
	8H	24.22	24.60	25.11	25.49	26.56	21.51	21.89	22.39	22.78	23.85
	12H	24.30	24.64	25.19	25.52	26.65	21.60	21.93	22.49	22.82	23.94
12H	4H	23.59	24.05	24.45	24.93	25.99	20.82	21.28	21.68	22.16	23.22
	6H	24.04	24.42	24.93	25.31	26.38	21.36	21.74	22.25	22.64	23.71
	8H	24.24	24.57	25.13	25.46	26.58	21.61	21.95	22.50	22.83	23.96