

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: P1427863

Luminaire Tested: SQ2W-PH1-K-025U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427863  
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-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 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

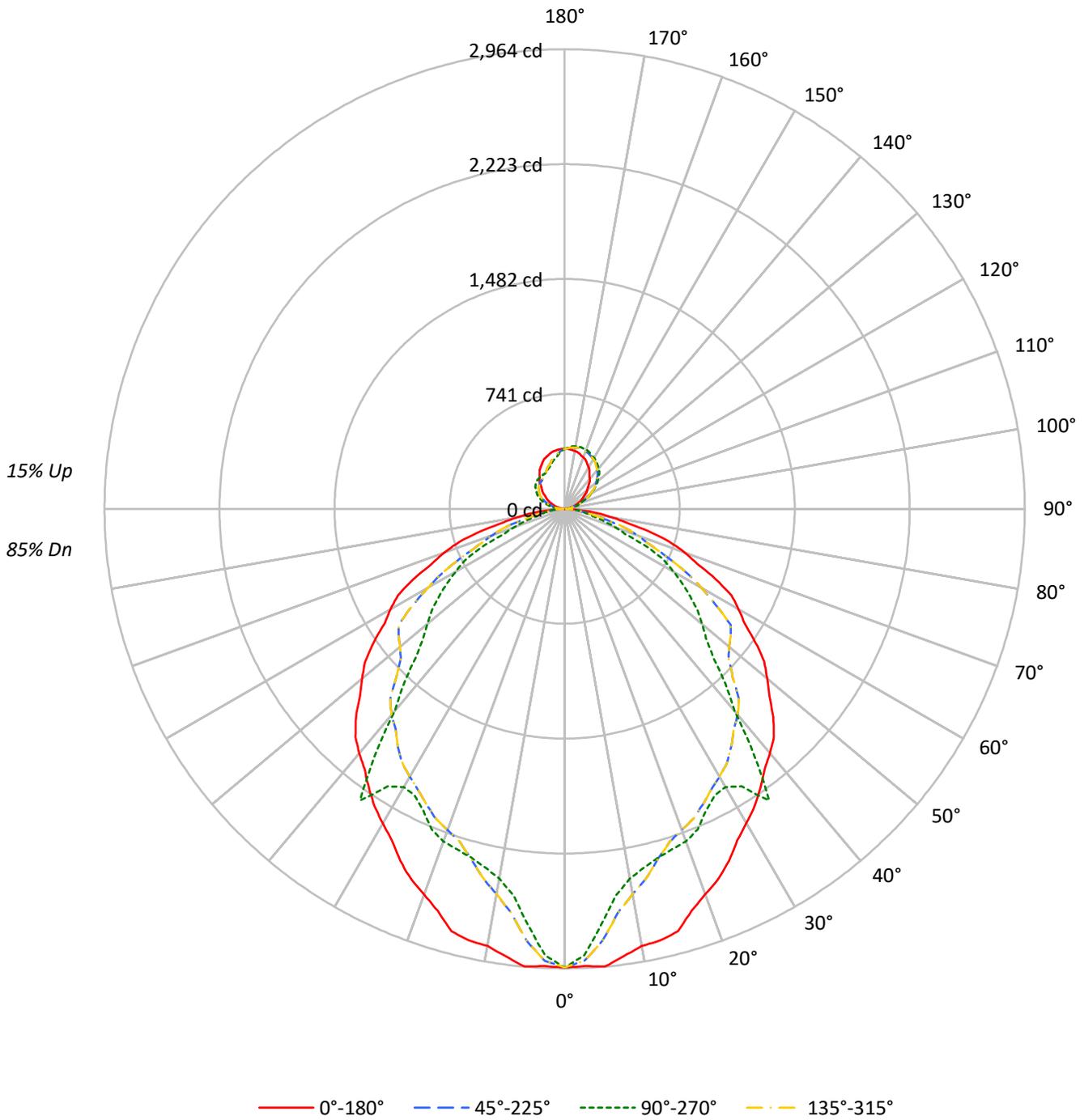
Lumens per Lamp: N/A  
Luminaire Lumens: 7670.2 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 56.7  
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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	89	89	89	85				
1	106	102	98	94	102	98	94	91	91	88	86	85	83	81	79	77	76	73				
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	64	61				
3	89	79	71	65	85	76	69	63	71	65	60	66	62	58	62	58	55	52				
4	81	70	62	55	78	68	60	54	63	57	52	59	54	50	56	51	47	45				
5	75	63	54	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39				
6	69	56	48	42	66	55	47	41	51	45	39	48	42	38	46	40	37	34				
7	64	51	43	37	61	50	42	36	47	40	35	44	38	34	42	36	33	30				
8	60	47	38	33	57	45	38	32	43	36	31	40	35	30	38	33	29	27				
9	56	43	35	30	54	42	34	29	39	33	28	37	32	27	35	30	26	25				
10	52	39	32	27	50	38	31	26	36	30	26	35	29	25	33	28	24	22				

**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	3.4
10°-20°	684.6	8.9
20°-30°	1003.8	13.1
30°-40°	1215.4	15.8
40°-50°	1195.2	15.6
50°-60°	1039.6	13.6
60°-70°	723.0	9.4
70°-80°	342.9	4.5
80°-90°	77.2	1.0
90°-100°	30.8	0.4
100°-110°	89.7	1.2
110°-120°	146.3	1.9
120°-130°	185.7	2.4
130°-140°	198.7	2.6
140°-150°	185.5	2.4
150°-160°	152.7	2.0
160°-170°	102.4	1.3
170°-180°	36.4	0.5
0°-30°	1948.7	25.4
0°-40°	3164.1	41.3
0°-60°	5398.9	70.4
0°-90°	6542.1	85.3
90°-120°	266.8	3.5
90°-150°	836.7	10.9
90°-180°	1128.0	14.7
0°-180°	7670.2	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°	1	9	1	17	1	4
95°	12	9	12	53	12	15
105°	57	91	57	126	57	61
115°	109	151	109	186	109	108
125°	162	240	162	229	162	145
135°	220	314	220	253	220	170
145°	281	362	281	259	281	176
155°	333	393	333	268	333	153
165°	368	410	368	309	368	104
175°	385	402	385	363	385	37
180°	386	386	386	386	386	



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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°	20.5	19.8	19.2	17.0	14.2	12.8	12.8	12.9	13.0	13.0	13.0
90°	1.2	2.7	4.7	6.2	7.4	7.8	7.8	8.2	8.6	8.6	8.6
92.5°	4.3	6.8	6.9	6.9	8.4	9.1	9.7	9.8	10.1	10.1	10.1
95°	12.1	13.3	19.9	19.5	13.3	10.5	9.0	9.0	9.0	9.0	9.0
97.5°	23.1	24.8	25.9	34.7	36.7	35.4	28.9	24.3	21.7	20.5	21.7
100°	32.8	33.6	35.9	36.3	46.1	55.4	50.7	44.9	42.9	41.8	42.9
102.5°	42.5	42.9	46.5	48.2	50.4	55.7	72.0	70.2	68.8	68.6	68.8
105°	57.0	57.4	64.0	67.1	68.7	68.7	68.3	76.1	88.6	91.3	88.6
107.5°	72.5	74.3	82.1	90.5	92.3	92.7	90.7	89.5	89.1	89.4	89.1
110°	83.1	85.9	95.2	105.8	108.5	109.3	108.5	107.3	106.5	106.5	106.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	93.4	97.4	108.0	120.1	124.7	127.1	125.4	124.5	123.7	124.3	123.7
115°	109.3	115.1	129.2	141.7	151.0	152.2	151.8	151.8	151.4	151.4	151.4
117.5°	123.9	133.3	149.1	163.6	174.4	177.6	179.1	178.7	178.2	179.0	178.2
120°	134.3	145.2	163.1	179.5	190.1	194.7	196.3	195.5	196.3	195.5	196.3
122.5°	145.2	158.6	176.2	193.3	205.7	211.0	212.9	213.0	213.2	212.7	213.2
125°	161.6	178.0	198.6	216.2	229.1	235.3	236.9	237.3	238.1	240.0	238.1
127.5°	178.1	196.7	219.4	236.3	249.5	257.1	259.5	260.4	262.0	262.9	262.0
130°	189.7	210.7	233.8	249.8	262.7	270.8	275.1	276.3	278.3	277.9	278.3
132.5°	201.8	223.9	247.2	263.8	275.8	284.6	288.3	291.6	292.3	292.9	292.3
135°	219.7	243.5	266.9	283.3	294.7	303.2	307.9	311.0	313.0	314.2	313.0
137.5°	238.5	263.7	286.1	300.7	312.1	319.6	324.9	328.1	330.2	331.1	330.2
140°	251.3	275.5	297.4	312.6	322.8	330.2	334.8	338.8	341.1	341.1	341.1
142.5°	263.5	287.4	308.6	323.8	332.7	339.5	344.5	347.5	350.1	350.1	350.1
145°	280.6	304.4	323.9	339.1	346.6	352.8	358.3	360.6	362.2	362.2	362.2
147.5°	298.5	319.6	337.3	351.9	358.2	365.5	369.8	371.7	373.6	372.8	373.6
150°	309.1	328.6	345.8	359.4	365.7	372.7	377.0	378.6	380.5	379.3	380.5
152.5°	319.4	338.0	353.6	366.3	371.6	378.6	383.6	385.1	386.4	385.6	386.4
155°	333.3	349.7	364.1	375.8	380.5	387.1	391.8	393.8	395.3	393.4	395.3
157.5°	345.7	359.8	372.4	383.2	388.2	393.9	398.2	400.6	402.2	401.4	402.2
160°	353.2	366.1	377.4	387.5	392.2	397.3	402.0	404.7	406.3	405.1	406.3
162.5°	359.4	371.1	381.8	391.0	395.0	399.5	405.1	407.5	409.1	407.6	409.1
165°	368.4	377.8	387.1	395.0	398.5	402.0	407.8	410.6	411.7	410.2	411.7
167.5°	375.2	382.4	390.0	396.7	399.2	402.7	408.5	410.8	412.3	410.3	412.3
170°	379.0	385.2	391.8	397.3	399.2	402.4	408.2	410.2	411.3	409.4	411.3
172.5°	382.1	386.8	392.1	397.0	398.0	400.5	406.0	408.0	408.8	407.2	408.8
175°	385.2	387.9	391.8	395.0	394.6	396.1	400.8	402.4	403.9	401.6	403.9
177.5°	386.7	387.9	389.2	391.0	389.8	389.8	393.2	394.2	394.5	393.2	394.5
180°	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4



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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°	12.9	12.8	12.8	14.2	17.0	19.2	19.8	20.5	19.8	19.1	17.2
90°	8.2	7.8	7.8	7.4	6.2	4.7	2.7	1.2	2.7	4.3	7.0
92.5°	9.8	9.7	9.1	8.4	6.9	6.9	6.8	4.3	7.4	10.5	15.1
95°	9.0	9.0	10.5	13.3	19.5	19.9	13.3	12.1	17.2	24.2	30.4
97.5°	24.3	28.9	35.4	36.7	34.7	25.9	24.8	23.1	31.5	38.4	48.5
100°	44.9	50.7	55.4	46.1	36.3	35.9	33.6	32.8	41.8	48.4	58.1
102.5°	70.2	72.0	55.7	50.4	48.2	46.5	42.9	42.5	51.4	60.6	68.8
105°	76.1	68.3	68.7	68.7	67.1	64.0	57.4	57.0	67.1	77.7	87.8
107.5°	89.5	90.7	92.7	92.3	90.5	82.1	74.3	72.5	81.6	94.3	105.5
110°	107.3	108.5	109.3	108.5	105.8	95.2	85.9	83.1	91.3	104.6	116.7



TEST NUMBER: P1427863

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	124.5	125.4	127.1	124.7	120.1	108.0	97.4	93.4	101.6	115.2	127.6
115°	151.8	151.8	152.2	151.0	141.7	129.2	115.1	109.3	116.3	128.8	142.4
117.5°	178.7	179.1	177.6	174.4	163.6	149.1	133.3	123.9	129.5	142.7	156.7
120°	195.5	196.3	194.7	190.1	179.5	163.1	145.2	134.3	138.5	151.4	165.5
122.5°	213.0	212.9	211.0	205.7	193.3	176.2	158.6	145.2	147.0	158.9	172.7
125°	237.3	236.9	235.3	229.1	216.2	198.6	178.0	161.6	159.2	169.4	183.4
127.5°	260.4	259.5	257.1	249.5	236.3	219.4	196.7	178.1	172.9	179.3	192.2
130°	276.3	275.1	270.8	262.7	249.8	233.8	210.7	189.7	182.3	186.2	197.5
132.5°	291.6	288.3	284.6	275.8	263.8	247.2	223.9	201.8	191.6	193.3	202.2
135°	311.0	307.9	303.2	294.7	283.3	266.9	243.5	219.7	205.7	204.1	209.2
137.5°	328.1	324.9	319.6	312.1	300.7	286.1	263.7	238.5	220.8	215.6	217.5
140°	338.8	334.8	330.2	322.8	312.6	297.4	275.5	251.3	231.4	224.0	222.8
142.5°	347.5	344.5	339.5	332.7	323.8	308.6	287.4	263.5	242.4	232.8	230.0
145°	360.6	358.3	352.8	346.6	339.1	323.9	304.4	280.6	259.5	247.0	241.2
147.5°	371.7	369.8	365.5	358.2	351.9	337.3	319.6	298.5	276.9	261.4	253.8
150°	378.6	377.0	372.7	365.7	359.4	345.8	328.6	309.1	288.4	272.0	262.3
152.5°	385.1	383.6	378.6	371.6	366.3	353.6	338.0	319.4	298.4	282.0	271.9
155°	393.8	391.8	387.1	380.5	375.8	364.1	349.7	333.3	315.3	298.2	286.8
157.5°	400.6	398.2	393.9	388.2	383.2	372.4	359.8	345.7	330.0	313.6	302.1
160°	404.7	402.0	397.3	392.2	387.5	377.4	366.1	353.2	338.8	323.9	311.4
162.5°	407.5	405.1	399.5	395.0	391.0	381.8	371.1	359.4	346.6	333.6	322.0
165°	410.6	407.8	402.0	398.5	395.0	387.1	377.8	368.4	357.5	346.9	337.6
167.5°	410.8	408.5	402.7	399.2	396.7	390.0	382.4	375.2	366.7	358.4	350.6
170°	410.2	408.2	402.4	399.2	397.3	391.8	385.2	379.0	372.3	365.3	359.0
172.5°	408.0	406.0	400.5	398.0	397.0	392.1	386.8	382.1	376.4	371.2	366.2
175°	402.4	400.8	396.1	394.6	395.0	391.8	387.9	385.2	381.7	378.6	375.8
177.5°	394.2	393.2	389.8	389.8	391.0	389.2	387.9	386.7	385.1	384.2	383.2
180°	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4



TEST NUMBER: P1427863

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L840-UNV-STD-W-WM-4

**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°	14.6	13.6	14.1	14.5	14.8	14.6	14.8	14.1	13.6	14.6	14.6
90°	9.0	11.7	14.4	16.0	17.6	16.8	17.6	14.4	11.7	9.0	9.0
92.5°	18.0	22.6	26.0	28.8	30.1	29.9	30.1	26.0	22.6	18.0	18.0
95°	36.3	41.8	47.2	51.1	53.5	52.7	53.5	47.2	41.8	36.3	36.3
97.5°	56.0	63.3	69.4	73.1	75.4	77.0	75.4	69.4	63.3	56.0	56.0
100°	69.1	76.1	83.1	87.4	91.3	92.9	91.3	83.1	76.1	69.1	69.1
102.5°	79.7	88.9	96.6	101.2	104.4	106.0	104.4	96.6	88.9	79.7	79.7
105°	97.2	106.9	115.1	121.0	124.5	125.7	124.5	115.1	106.9	97.2	97.2
107.5°	114.7	124.7	132.3	138.8	143.1	145.6	143.1	132.3	124.7	114.7	114.7
110°	128.4	136.6	144.8	150.6	154.9	156.5	154.9	144.8	136.6	128.4	128.4



TEST NUMBER: P1427863

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	140.0	149.1	157.3	163.1	168.0	170.2	168.0	163.1	157.3	149.1	140.0
115°	156.1	168.2	175.6	181.1	184.6	186.5	184.6	181.1	175.6	168.2	156.1
117.5°	169.5	182.2	190.3	194.5	196.1	197.6	196.1	194.5	190.3	182.2	169.5
120°	178.0	189.7	199.0	204.5	206.5	207.2	206.5	204.5	199.0	189.7	178.0
122.5°	185.8	196.9	205.9	212.6	215.8	216.6	215.8	212.6	205.9	196.9	185.8
125°	196.7	207.2	216.6	223.2	226.7	228.7	226.7	223.2	216.6	207.2	196.7
127.5°	206.2	217.6	226.2	232.2	235.6	237.2	235.6	232.2	226.2	217.6	206.2
130°	211.5	223.2	231.8	238.5	241.6	243.1	241.6	238.5	231.8	223.2	211.5
132.5°	215.6	227.9	236.8	242.8	246.3	247.8	246.3	242.8	236.8	227.9	215.6
135°	220.5	233.4	242.7	248.6	251.7	253.3	251.7	248.6	242.7	233.4	220.5
137.5°	224.8	236.5	246.3	252.4	255.2	256.2	255.2	252.4	246.3	236.5	224.8
140°	227.9	238.1	247.8	253.7	256.8	257.2	256.8	253.7	247.8	238.1	227.9
142.5°	232.0	239.9	248.4	254.3	257.4	258.1	257.4	254.3	248.4	239.9	232.0
145°	239.2	243.9	249.8	255.2	258.0	258.7	258.0	255.2	249.8	243.9	239.2
147.5°	248.4	249.8	252.9	256.5	259.1	259.7	259.1	256.5	252.9	249.8	248.4
150°	255.2	254.8	256.0	258.4	260.7	260.3	260.7	258.4	256.0	254.8	255.2
152.5°	263.0	260.8	260.7	261.8	262.9	262.8	262.9	261.8	260.7	260.8	263.0
155°	276.3	272.0	269.7	268.9	268.9	268.5	268.9	268.9	269.7	272.0	276.3
157.5°	290.9	284.9	281.4	279.5	279.0	278.1	279.0	279.5	281.4	284.9	290.9
160°	300.9	294.3	290.7	287.6	286.5	285.3	286.5	287.6	290.7	294.3	300.9
162.5°	310.3	303.9	300.1	297.3	296.1	294.3	296.1	297.3	300.1	303.9	310.3
165°	325.5	318.8	314.6	312.2	310.7	309.1	310.7	312.2	314.6	318.8	325.5
167.5°	340.7	333.4	330.6	328.0	326.5	323.7	326.5	328.0	330.6	333.4	340.7
170°	350.1	343.4	341.9	339.5	336.8	333.7	336.8	339.5	341.9	343.4	350.1
172.5°	358.2	353.7	352.2	349.8	349.0	346.5	349.0	349.8	352.2	353.7	358.2
175°	370.0	366.5	366.5	366.1	364.9	362.6	364.9	366.1	366.5	366.5	370.0
177.5°	379.8	377.9	379.2	379.2	378.9	376.7	378.9	379.2	379.2	377.9	379.8
180°	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4



TEST NUMBER: P1427863

CATALOG NUMBER: SQ2W-PH1-K-025U-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°	17.2	19.1	19.8	20.5
90°	7.0	4.3	2.7	1.2
92.5°	15.1	10.5	7.4	4.3
95°	30.4	24.2	17.2	12.1
97.5°	48.5	38.4	31.5	23.1
100°	58.1	48.4	41.8	32.8
102.5°	68.8	60.6	51.4	42.5
105°	87.8	77.7	67.1	57.0
107.5°	105.5	94.3	81.6	72.5
110°	116.7	104.6	91.3	83.1



TEST NUMBER: P1427863

CATALOG NUMBER: SQ2W-PH1-K-025U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	127.6	115.2	101.6	93.4
115°	142.4	128.8	116.3	109.3
117.5°	156.7	142.7	129.5	123.9
120°	165.5	151.4	138.5	134.3
122.5°	172.7	158.9	147.0	145.2
125°	183.4	169.4	159.2	161.6
127.5°	192.2	179.3	172.9	178.1
130°	197.5	186.2	182.3	189.7
132.5°	202.2	193.3	191.6	201.8
135°	209.2	204.1	205.7	219.7
137.5°	217.5	215.6	220.8	238.5
140°	222.8	224.0	231.4	251.3
142.5°	230.0	232.8	242.4	263.5
145°	241.2	247.0	259.5	280.6
147.5°	253.8	261.4	276.9	298.5
150°	262.3	272.0	288.4	309.1
152.5°	271.9	282.0	298.4	319.4
155°	286.8	298.2	315.3	333.3
157.5°	302.1	313.6	330.0	345.7
160°	311.4	323.9	338.8	353.2
162.5°	322.0	333.6	346.6	359.4
165°	337.6	346.9	357.5	368.4
167.5°	350.6	358.4	366.7	375.2
170°	359.0	365.3	372.3	379.0
172.5°	366.2	371.2	376.4	382.1
175°	375.8	378.6	381.7	385.2
177.5°	383.2	384.2	385.1	386.7
180°	386.4	386.4	386.4	386.4



TEST NUMBER: P1427863  
 CATALOG NUMBER: SQ2W-PH1-K-025U-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	23.11	24.40	23.70	24.99	25.65	21.94	23.23	22.52	23.82	24.47
	3H	25.32	26.48	25.92	27.07	27.77	23.02	24.18	23.62	24.78	25.47
	4H	26.15	27.24	26.77	27.85	28.56	23.29	24.38	23.90	24.99	25.70
	6H	26.64	27.65	27.27	28.27	28.99	23.45	24.46	24.08	25.08	25.80
	8H	26.81	27.76	27.45	28.41	29.14	23.52	24.48	24.16	25.12	25.85
	12H	26.88	27.79	27.53	28.43	29.19	23.55	24.46	24.19	25.10	25.85
4H	2H	23.60	24.69	24.22	25.30	26.01	22.68	23.76	23.30	24.38	25.09
	3H	25.89	26.80	26.52	27.45	28.18	23.95	24.85	24.58	25.50	26.23
	4H	26.78	27.60	27.43	28.26	29.02	24.26	25.07	24.91	25.73	26.49
	6H	27.37	28.07	28.04	28.76	29.53	24.48	25.19	25.15	25.87	26.64
	8H	27.58	28.24	28.25	28.92	29.70	24.58	25.24	25.25	25.92	26.70
	12H	27.68	28.28	28.38	28.98	29.77	24.62	25.21	25.32	25.92	26.71
8H	4H	26.84	27.50	27.51	28.18	28.96	24.52	25.18	25.19	25.86	26.64
	6H	27.48	28.03	28.19	28.76	29.54	24.80	25.35	25.51	26.07	26.86
	8H	27.75	28.24	28.47	28.97	29.77	24.95	25.44	25.67	26.17	26.97
	12H	27.90	28.33	28.62	29.05	29.92	25.04	25.47	25.76	26.18	27.05
12H	4H	26.81	27.40	27.51	28.11	28.90	24.53	25.13	25.23	25.84	26.62
	6H	27.46	27.95	28.18	28.68	29.48	24.84	25.33	25.56	26.06	26.86
	8H	27.76	28.19	28.48	28.90	29.77	25.02	25.45	25.74	26.17	27.04