

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: P1428196

Luminaire Tested: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428196  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

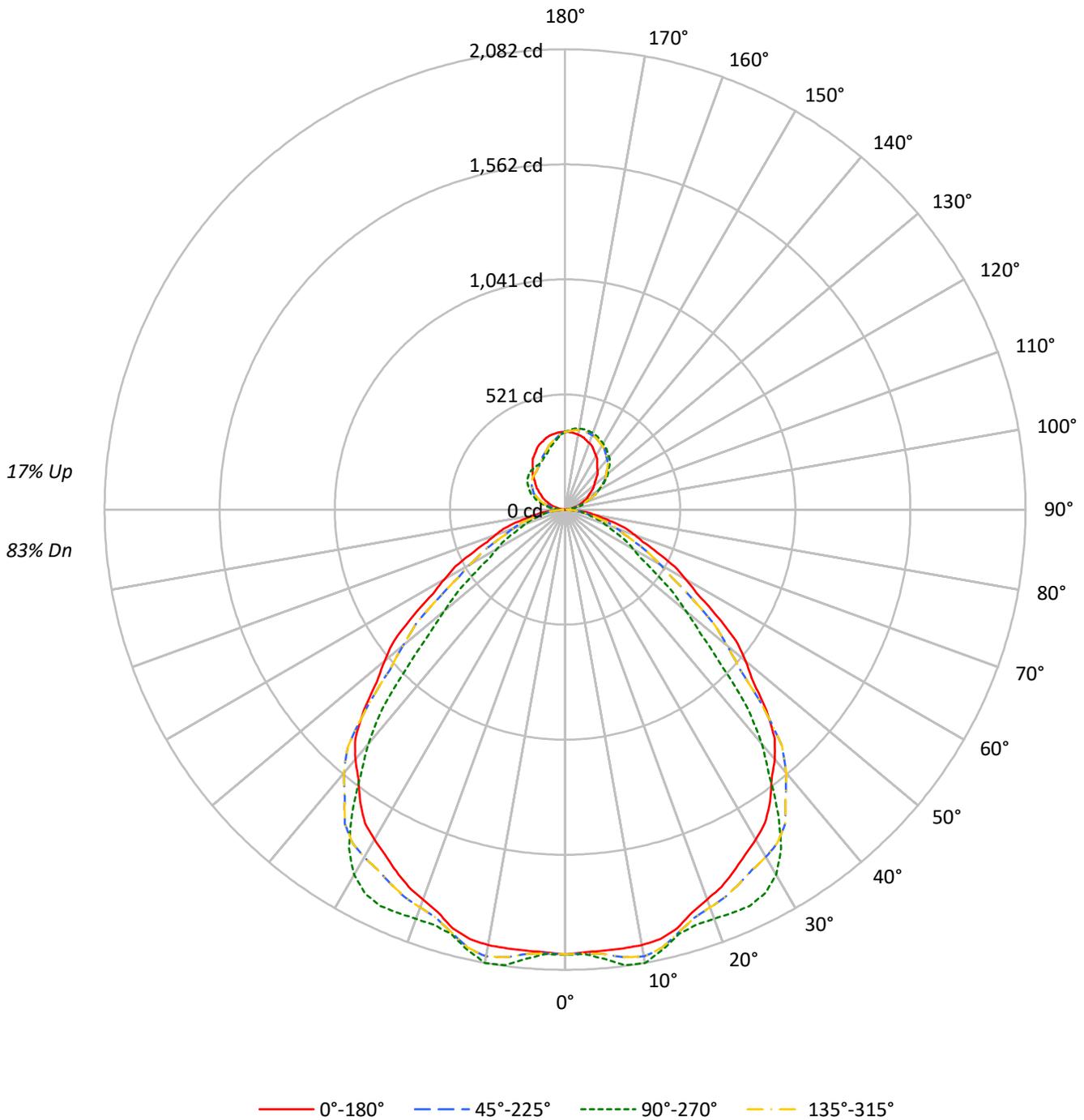
Lumens per Lamp: N/A  
Luminaire Lumens: 5867.4 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	83				
1	106	102	98	95	102	98	95	92	91	88	86	84	82	80	78	76	75	72				
2	98	90	84	79	93	87	82	77	81	76	73	75	72	69	70	67	65	62				
3	90	80	73	67	86	77	71	66	72	67	62	67	63	59	63	59	56	53				
4	83	72	64	58	79	69	62	57	65	59	54	60	56	52	57	52	49	47				
5	76	65	56	50	73	62	55	49	58	52	47	55	49	45	51	47	43	41				
6	71	58	50	44	68	57	49	44	53	47	42	50	44	40	47	42	38	36				
7	66	53	45	39	63	52	44	39	48	42	37	46	40	36	43	38	34	32				
8	61	49	41	35	59	47	40	35	44	38	33	42	36	32	40	35	31	29				
9	57	45	37	32	55	43	36	31	41	35	30	39	33	29	37	32	28	26				
10	53	41	34	29	51	40	33	28	38	32	27	36	30	27	34	29	26	24				

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

	0°	90°	180°	270°
0°	32495	32495	32495	32495
5°	32453	33051	32453	33051
10°	32794	34140	32794	34140
15°	32783	33230	32783	33230
20°	32254	33839	32254	33839
25°	32163	35234	32163	35234
30°	32130	35571	32130	35571
35°	31824	33119	31824	33119
40°	31090	29145	31090	29145
45°	29418	23048	29418	23048
50°	26746	17882	26746	17882
55°	23504	13917	23504	13917
60°	20337	11460	20337	11460
65°	17558	10032	17558	10032
70°	15786	8908	15786	8908
75°	14460	8191	14460	8191
80°	12589	8015	12589	8015
85°	9114	3798	9114	3798

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 31583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.4	3.3
10°-20°	562.7	9.6
20°-30°	869.8	14.8
30°-40°	1046.0	17.8
40°-50°	939.3	16.0
50°-60°	629.4	10.7
60°-70°	366.1	6.2
70°-80°	188.1	3.2
80°-90°	47.8	0.8
90°-100°	27.9	0.5
100°-110°	81.4	1.4
110°-120°	132.8	2.3
120°-130°	168.5	2.9
130°-140°	180.3	3.1
140°-150°	168.4	2.9
150°-160°	138.6	2.4
160°-170°	92.9	1.6
170°-180°	33.0	0.6
0°-30°	1626.8	27.7
0°-40°	2672.8	45.6
0°-60°	4241.4	72.3
0°-90°	4843.4	82.5
90°-120°	242.1	4.1
90°-150°	759.4	12.9
90°-180°	1024.0	17.5
0°-180°	5867.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2013	2013	2013	2013	2013	
5°	2002	2039	2002	2039	2002	191
15°	1961	1988	1961	1988	1961	551
25°	1805	1978	1805	1978	1805	833
35°	1615	1680	1615	1680	1615	1007
45°	1288	1009	1288	1009	1288	986
55°	835	494	835	494	835	750
65°	460	263	460	263	460	465
75°	232	131	232	131	232	246
85°	49	20	49	20	49	61
90°	1	8	1	15	1	3
95°	11	8	11	48	11	13
105°	52	83	52	114	52	55
115°	99	137	99	169	99	98
125°	147	218	147	208	147	131
135°	199	285	199	230	199	154
145°	255	329	255	235	255	159
155°	302	357	302	244	302	139
165°	334	372	334	280	334	94
175°	350	364	350	329	350	33
180°	351	351	351	351	351	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2004.4	2015.4	2026.3	2021.4	2011.2	2006.4	2007.2	2008.3	2010.4	2012.6	2010.4
5°	2002.4	2017.9	2033.4	2029.7	2019.7	2015.6	2017.4	2021.1	2030.2	2039.3	2030.2
7.5°	2002.0	2024.0	2046.1	2047.8	2042.7	2042.8	2048.1	2055.0	2067.1	2079.1	2067.1
10°	2000.3	2026.8	2053.2	2057.1	2053.4	2052.1	2053.0	2056.9	2069.6	2082.4	2069.6
12.5°	1990.5	2021.3	2052.1	2048.9	2034.3	2026.4	2025.1	2025.8	2032.8	2039.7	2032.8
15°	1961.3	1997.8	2034.3	2019.5	1987.6	1973.0	1975.7	1978.9	1983.4	1988.0	1983.4
17.5°	1910.0	1948.2	1986.3	1973.0	1942.5	1932.2	1942.1	1951.7	1960.6	1969.5	1960.6
20°	1877.2	1914.6	1952.0	1942.9	1918.3	1912.3	1925.1	1938.5	1954.0	1969.5	1954.0
22.5°	1847.7	1885.1	1922.4	1916.6	1896.4	1895.2	1913.1	1931.8	1953.1	1974.5	1953.1
25°	1805.4	1838.2	1871.1	1871.8	1861.7	1871.8	1901.8	1930.3	1954.0	1977.8	1954.0
27.5°	1761.1	1780.4	1799.8	1812.5	1823.1	1848.7	1889.4	1924.0	1940.6	1957.2	1940.6
30°	1723.4	1736.1	1748.9	1772.6	1799.9	1831.4	1867.0	1895.2	1901.6	1908.0	1901.6
32.5°	1682.3	1690.0	1697.6	1731.0	1773.0	1803.3	1822.1	1834.1	1825.9	1817.7	1825.9
35°	1614.6	1621.0	1627.4	1670.0	1724.7	1744.8	1730.2	1714.9	1697.6	1680.3	1697.6
37.5°	1534.2	1547.3	1560.5	1595.2	1637.1	1636.8	1594.1	1557.1	1537.2	1517.4	1537.2
40°	1475.1	1497.0	1518.9	1542.1	1565.8	1545.8	1481.9	1428.4	1405.6	1382.8	1405.6
42.5°	1402.9	1437.9	1472.9	1478.1	1473.4	1430.3	1349.0	1281.0	1253.1	1225.2	1253.1
45°	1288.4	1335.8	1383.2	1356.1	1304.1	1233.9	1145.5	1071.4	1040.4	1009.4	1040.4
47.5°	1153.4	1202.1	1250.8	1199.6	1115.2	1033.5	954.5	888.1	859.1	830.1	859.1
50°	1064.8	1104.0	1143.2	1085.3	995.0	913.0	839.1	775.7	743.8	711.9	743.8
52.5°	974.5	1002.8	1031.0	973.7	887.8	807.9	734.1	671.4	642.4	613.4	642.4
55°	835.0	849.6	864.2	811.1	735.4	662.4	592.2	534.6	514.5	494.4	514.5
57.5°	707.0	716.3	725.6	675.3	605.0	540.1	480.5	432.1	417.3	402.5	417.3
60°	629.8	636.2	642.6	591.5	521.3	463.0	416.5	378.6	366.8	354.9	366.8
62.5°	559.3	564.2	569.1	519.9	452.6	400.4	363.4	333.4	324.5	315.5	324.5
65°	459.6	464.1	468.7	426.7	369.3	326.4	298.2	275.4	269.0	262.6	269.0
67.5°	380.4	382.7	385.1	350.6	303.7	269.1	246.9	228.7	222.7	216.6	222.7
70°	334.4	335.3	336.2	305.7	264.7	234.1	214.1	197.9	193.3	188.7	193.3
72.5°	293.4	292.1	290.8	263.6	227.6	201.5	185.1	172.0	168.9	165.8	168.9
75°	231.8	229.1	226.4	203.8	174.6	154.6	143.6	135.0	133.1	131.3	133.1
77.5°	173.2	170.2	167.3	148.5	124.5	110.6	107.0	104.2	104.2	104.2	104.2
80°	135.4	131.8	128.1	113.5	95.3	86.2	86.2	86.2	86.2	86.2	86.2
82.5°	100.9	95.8	90.7	81.8	71.6	66.5	66.5	66.3	65.6	64.8	65.6
85°	49.2	44.7	40.1	39.0	39.0	36.2	30.8	26.0	23.3	20.5	23.3
87.5°	13.3	13.6	14.0	11.5	8.1	6.3	6.3	6.4	6.5	6.5	6.5
90°	1.1	2.5	4.3	5.7	6.7	7.1	7.1	7.4	7.8	7.8	7.8
92.5°	3.9	6.2	6.2	6.2	7.6	8.2	8.8	8.9	9.2	9.2	9.2
95°	11.0	12.0	18.1	17.7	12.0	9.6	8.1	8.1	8.1	8.1	8.1
97.5°	21.0	22.5	23.5	31.5	33.3	32.2	26.2	22.0	19.7	18.6	19.7
100°	29.8	30.5	32.6	32.9	41.8	50.3	46.0	40.7	39.0	37.9	39.0
102.5°	38.5	39.0	42.2	43.7	45.8	50.6	65.3	63.7	62.5	62.3	62.5
105°	51.7	52.1	58.1	60.9	62.3	62.3	62.0	69.1	80.4	82.9	80.4
107.5°	65.8	67.4	74.5	82.1	83.7	84.2	82.3	81.3	80.8	81.1	80.8
110°	75.4	77.9	86.4	96.0	98.5	99.2	98.5	97.4	96.7	96.7	96.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	84.8	88.4	98.0	109.0	113.2	115.3	113.8	113.0	112.3	112.9	112.3
115°	99.2	104.5	117.2	128.6	137.1	138.1	137.8	137.8	137.4	137.4	137.4
117.5°	112.5	121.0	135.3	148.5	158.3	161.2	162.6	162.2	161.7	162.4	161.7
120°	121.9	131.8	148.1	162.9	172.5	176.8	178.2	177.5	178.2	177.5	178.2
122.5°	131.8	144.0	160.0	175.4	186.7	191.5	193.2	193.3	193.5	193.1	193.5
125°	146.6	161.5	180.3	196.2	207.9	213.6	215.0	215.4	216.1	217.8	216.1
127.5°	161.7	178.5	199.1	214.5	226.5	233.4	235.6	236.3	237.8	238.6	237.8
130°	172.2	191.3	212.2	226.7	238.4	245.8	249.7	250.8	252.6	252.2	252.6
132.5°	183.2	203.2	224.4	239.5	250.3	258.3	261.6	264.7	265.3	265.8	265.3
135°	199.4	221.0	242.3	257.2	267.4	275.2	279.5	282.3	284.1	285.1	284.1
137.5°	216.5	239.3	259.7	273.0	283.3	290.0	294.9	297.8	299.7	300.5	299.7
140°	228.1	250.1	269.9	283.7	292.9	299.7	303.9	307.5	309.6	309.6	309.6
142.5°	239.2	260.9	280.1	293.9	302.0	308.2	312.7	315.4	317.8	317.8	317.8
145°	254.7	276.3	294.0	307.8	314.6	320.2	325.2	327.3	328.7	328.7	328.7
147.5°	270.9	290.0	306.2	319.4	325.1	331.8	335.7	337.4	339.1	338.4	339.1
150°	280.5	298.3	313.8	326.2	331.9	338.3	342.2	343.6	345.4	344.3	345.4
152.5°	289.9	306.8	320.9	332.5	337.3	343.7	348.1	349.5	350.8	350.0	350.8
155°	302.5	317.4	330.5	341.1	345.4	351.4	355.6	357.4	358.8	357.1	358.8
157.5°	313.8	326.6	338.0	347.8	352.3	357.5	361.4	363.6	365.1	364.3	365.1
160°	320.6	332.3	342.5	351.7	356.0	360.6	364.9	367.3	368.7	367.7	368.7
162.5°	326.2	336.8	346.5	354.9	358.5	362.6	367.7	369.9	371.3	370.0	371.3
165°	334.4	342.9	351.4	358.5	361.7	364.9	370.2	372.6	373.7	372.3	373.7
167.5°	340.6	347.1	353.9	360.0	362.4	365.5	370.8	372.9	374.2	372.4	374.2
170°	344.0	349.6	355.6	360.6	362.4	365.2	370.5	372.3	373.4	371.6	373.4
172.5°	346.8	351.0	355.9	360.3	361.2	363.5	368.5	370.3	371.1	369.6	371.1
175°	349.6	352.1	355.6	358.5	358.1	359.5	363.8	365.2	366.6	364.5	366.6
177.5°	351.0	352.1	353.2	354.9	353.8	353.8	356.9	357.8	358.0	356.9	358.0
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2008.3	2007.2	2006.4	2011.2	2021.4	2026.3	2015.4	2004.4	2015.4	2026.3	2021.4
5°	2021.1	2017.4	2015.6	2019.7	2029.7	2033.4	2017.9	2002.4	2017.9	2033.4	2029.7
7.5°	2055.0	2048.1	2042.8	2042.7	2047.8	2046.1	2024.0	2002.0	2024.0	2046.1	2047.8
10°	2056.9	2053.0	2052.1	2053.4	2057.1	2053.2	2026.8	2000.3	2026.8	2053.2	2057.1
12.5°	2025.8	2025.1	2026.4	2034.3	2048.9	2052.1	2021.3	1990.5	2021.3	2052.1	2048.9
15°	1978.9	1975.7	1973.0	1987.6	2019.5	2034.3	1997.8	1961.3	1997.8	2034.3	2019.5
17.5°	1951.7	1942.1	1932.2	1942.5	1973.0	1986.3	1948.2	1910.0	1948.2	1986.3	1973.0
20°	1938.5	1925.1	1912.3	1918.3	1942.9	1952.0	1914.6	1877.2	1914.6	1952.0	1942.9
22.5°	1931.8	1913.1	1895.2	1896.4	1916.6	1922.4	1885.1	1847.7	1885.1	1922.4	1916.6
25°	1930.3	1901.8	1871.8	1861.7	1871.8	1871.1	1838.2	1805.4	1838.2	1871.1	1871.8
27.5°	1924.0	1889.4	1848.7	1823.1	1812.5	1799.8	1780.4	1761.1	1780.4	1799.8	1812.5
30°	1895.2	1867.0	1831.4	1799.9	1772.6	1748.9	1736.1	1723.4	1736.1	1748.9	1772.6
32.5°	1834.1	1822.1	1803.3	1773.0	1731.0	1697.6	1690.0	1682.3	1690.0	1697.6	1731.0
35°	1714.9	1730.2	1744.8	1724.7	1670.0	1627.4	1621.0	1614.6	1621.0	1627.4	1670.0
37.5°	1557.1	1594.1	1636.8	1637.1	1595.2	1560.5	1547.3	1534.2	1547.3	1560.5	1595.2
40°	1428.4	1481.9	1545.8	1565.8	1542.1	1518.9	1497.0	1475.1	1497.0	1518.9	1542.1
42.5°	1281.0	1349.0	1430.3	1473.4	1478.1	1472.9	1437.9	1402.9	1437.9	1472.9	1478.1
45°	1071.4	1145.5	1233.9	1304.1	1356.1	1383.2	1335.8	1288.4	1335.8	1383.2	1356.1
47.5°	888.1	954.5	1033.5	1115.2	1199.6	1250.8	1202.1	1153.4	1202.1	1250.8	1199.6
50°	775.7	839.1	913.0	995.0	1085.3	1143.2	1104.0	1064.8	1104.0	1143.2	1085.3
52.5°	671.4	734.1	807.9	887.8	973.7	1031.0	1002.8	974.5	1002.8	1031.0	973.7
55°	534.6	592.2	662.4	735.4	811.1	864.2	849.6	835.0	849.6	864.2	811.1
57.5°	432.1	480.5	540.1	605.0	675.3	725.6	716.3	707.0	716.3	725.6	675.3
60°	378.6	416.5	463.0	521.3	591.5	642.6	636.2	629.8	636.2	642.6	591.5
62.5°	333.4	363.4	400.4	452.6	519.9	569.1	564.2	559.3	564.2	569.1	519.9
65°	275.4	298.2	326.4	369.3	426.7	468.7	464.1	459.6	464.1	468.7	426.7
67.5°	228.7	246.9	269.1	303.7	350.6	385.1	382.7	380.4	382.7	385.1	350.6
70°	197.9	214.1	234.1	264.7	305.7	336.2	335.3	334.4	335.3	336.2	305.7
72.5°	172.0	185.1	201.5	227.6	263.6	290.8	292.1	293.4	292.1	290.8	263.6
75°	135.0	143.6	154.6	174.6	203.8	226.4	229.1	231.8	229.1	226.4	203.8
77.5°	104.2	107.0	110.6	124.5	148.5	167.3	170.2	173.2	170.2	167.3	148.5
80°	86.2	86.2	86.2	95.3	113.5	128.1	131.8	135.4	131.8	128.1	113.5
82.5°	66.3	66.5	66.5	71.6	81.8	90.7	95.8	100.9	95.8	90.7	81.8
85°	26.0	30.8	36.2	39.0	39.0	40.1	44.7	49.2	44.7	40.1	39.0
87.5°	6.4	6.3	6.3	8.1	11.5	14.0	13.6	13.3	13.6	13.9	11.7
90°	7.4	7.1	7.1	6.7	5.7	4.3	2.5	1.1	2.5	3.9	6.4
92.5°	8.9	8.8	8.2	7.6	6.2	6.2	6.2	3.9	6.7	9.6	13.7
95°	8.1	8.1	9.6	12.0	17.7	18.1	12.0	11.0	15.6	22.0	27.6
97.5°	22.0	26.2	32.2	33.3	31.5	23.5	22.5	21.0	28.6	34.9	44.0
100°	40.7	46.0	50.3	41.8	32.9	32.6	30.5	29.8	37.9	43.9	52.8
102.5°	63.7	65.3	50.6	45.8	43.7	42.2	39.0	38.5	46.7	55.0	62.4
105°	69.1	62.0	62.3	62.3	60.9	58.1	52.1	51.7	60.9	70.5	79.7
107.5°	81.3	82.3	84.2	83.7	82.1	74.5	67.4	65.8	74.1	85.6	95.7
110°	97.4	98.5	99.2	98.5	96.0	86.4	77.9	75.4	82.9	94.9	105.9



TEST NUMBER: P1428196

CATALOG NUMBER: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	113.0	113.8	115.3	113.2	109.0	98.0	88.4	84.8	92.2	104.6	115.8
115°	137.8	137.8	138.1	137.1	128.6	117.2	104.5	99.2	105.6	116.9	129.3
117.5°	162.2	162.6	161.2	158.3	148.5	135.3	121.0	112.5	117.5	129.5	142.3
120°	177.5	178.2	176.8	172.5	162.9	148.1	131.8	121.9	125.7	137.4	150.2
122.5°	193.3	193.2	191.5	186.7	175.4	160.0	144.0	131.8	133.4	144.2	156.7
125°	215.4	215.0	213.6	207.9	196.2	180.3	161.5	146.6	144.5	153.7	166.5
127.5°	236.3	235.6	233.4	226.5	214.5	199.1	178.5	161.7	156.9	162.7	174.4
130°	250.8	249.7	245.8	238.4	226.7	212.2	191.3	172.2	165.4	169.0	179.2
132.5°	264.7	261.6	258.3	250.3	239.5	224.4	203.2	183.2	173.9	175.5	183.5
135°	282.3	279.5	275.2	267.4	257.2	242.3	221.0	199.4	186.7	185.3	189.9
137.5°	297.8	294.9	290.0	283.3	273.0	259.7	239.3	216.5	200.4	195.7	197.4
140°	307.5	303.9	299.7	292.9	283.7	269.9	250.1	228.1	210.1	203.3	202.3
142.5°	315.4	312.7	308.2	302.0	293.9	280.1	260.9	239.2	220.0	211.3	208.8
145°	327.3	325.2	320.2	314.6	307.8	294.0	276.3	254.7	235.6	224.2	218.9
147.5°	337.4	335.7	331.8	325.1	319.4	306.2	290.0	270.9	251.3	237.3	230.4
150°	343.6	342.2	338.3	331.9	326.2	313.8	298.3	280.5	261.8	246.9	238.0
152.5°	349.5	348.1	343.7	337.3	332.5	320.9	306.8	289.9	270.8	256.0	246.8
155°	357.4	355.6	351.4	345.4	341.1	330.5	317.4	302.5	286.2	270.6	260.4
157.5°	363.6	361.4	357.5	352.3	347.8	338.0	326.6	313.8	299.5	284.7	274.2
160°	367.3	364.9	360.6	356.0	351.7	342.5	332.3	320.6	307.5	294.0	282.7
162.5°	369.9	367.7	362.6	358.5	354.9	346.5	336.8	326.2	314.6	302.8	292.3
165°	372.6	370.2	364.9	361.7	358.5	351.4	342.9	334.4	324.5	314.9	306.4
167.5°	372.9	370.8	365.5	362.4	360.0	353.9	347.1	340.6	332.8	325.3	318.2
170°	372.3	370.5	365.2	362.4	360.6	355.6	349.6	344.0	337.9	331.6	325.9
172.5°	370.3	368.5	363.5	361.2	360.3	355.9	351.0	346.8	341.6	336.9	332.4
175°	365.2	363.8	359.5	358.1	358.5	355.6	352.1	349.6	346.4	343.6	341.1
177.5°	357.8	356.9	353.8	353.8	354.9	353.2	352.1	351.0	349.5	348.7	347.8
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1428196

CATALOG NUMBER: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6	2012.6
2.5°	2011.2	2006.4	2007.2	2008.3	2010.4	2012.6	2010.4	2008.3	2007.2	2006.4	2011.2
5°	2019.7	2015.6	2017.4	2021.1	2030.2	2039.3	2030.2	2021.1	2017.4	2015.6	2019.7
7.5°	2042.7	2042.8	2048.1	2055.0	2067.1	2079.1	2067.1	2055.0	2048.1	2042.8	2042.7
10°	2053.4	2052.1	2053.0	2056.9	2069.6	2082.4	2069.6	2056.9	2053.0	2052.1	2053.4
12.5°	2034.3	2026.4	2025.1	2025.8	2032.8	2039.7	2032.8	2025.8	2025.1	2026.4	2034.3
15°	1987.6	1973.0	1975.7	1978.9	1983.4	1988.0	1983.4	1978.9	1975.7	1973.0	1987.6
17.5°	1942.5	1932.2	1942.1	1951.7	1960.6	1969.5	1960.6	1951.7	1942.1	1932.2	1942.5
20°	1918.3	1912.3	1925.1	1938.5	1954.0	1969.5	1954.0	1938.5	1925.1	1912.3	1918.3
22.5°	1896.4	1895.2	1913.1	1931.8	1953.1	1974.5	1953.1	1931.8	1913.1	1895.2	1896.4
25°	1861.7	1871.8	1901.8	1930.3	1954.0	1977.8	1954.0	1930.3	1901.8	1871.8	1861.7
27.5°	1823.1	1848.7	1889.4	1924.0	1940.6	1957.2	1940.6	1924.0	1889.4	1848.7	1823.1
30°	1799.9	1831.4	1867.0	1895.2	1901.6	1908.0	1901.6	1895.2	1867.0	1831.4	1799.9
32.5°	1773.0	1803.3	1822.1	1834.1	1825.9	1817.7	1825.9	1834.1	1822.1	1803.3	1773.0
35°	1724.7	1744.8	1730.2	1714.9	1697.6	1680.3	1697.6	1714.9	1730.2	1744.8	1724.7
37.5°	1637.1	1636.8	1594.1	1557.1	1537.2	1517.4	1537.2	1557.1	1594.1	1636.8	1637.1
40°	1565.8	1545.8	1481.9	1428.4	1405.6	1382.8	1405.6	1428.4	1481.9	1545.8	1565.8
42.5°	1473.4	1430.3	1349.0	1281.0	1253.1	1225.2	1253.1	1281.0	1349.0	1430.3	1473.4
45°	1304.1	1233.9	1145.5	1071.4	1040.4	1009.4	1040.4	1071.4	1145.5	1233.9	1304.1
47.5°	1115.2	1033.5	954.5	888.1	859.1	830.1	859.1	888.1	954.5	1033.5	1115.2
50°	995.0	913.0	839.1	775.7	743.8	711.9	743.8	775.7	839.1	913.0	995.0
52.5°	887.8	807.9	734.1	671.4	642.4	613.4	642.4	671.4	734.1	807.9	887.8
55°	735.4	662.4	592.2	534.6	514.5	494.4	514.5	534.6	592.2	662.4	735.4
57.5°	605.0	540.1	480.5	432.1	417.3	402.5	417.3	432.1	480.5	540.1	605.0
60°	521.3	463.0	416.5	378.6	366.8	354.9	366.8	378.6	416.5	463.0	521.3
62.5°	452.6	400.4	363.4	333.4	324.5	315.5	324.5	333.4	363.4	400.4	452.6
65°	369.3	326.4	298.2	275.4	269.0	262.6	269.0	275.4	298.2	326.4	369.3
67.5°	303.7	269.1	246.9	228.7	222.7	216.6	222.7	228.7	246.9	269.1	303.7
70°	264.7	234.1	214.1	197.9	193.3	188.7	193.3	197.9	214.1	234.1	264.7
72.5°	227.6	201.5	185.1	172.0	168.9	165.8	168.9	172.0	185.1	201.5	227.6
75°	174.6	154.6	143.6	135.0	133.1	131.3	133.1	135.0	143.6	154.6	174.6
77.5°	124.5	110.6	107.0	104.2	104.2	104.2	104.2	104.2	107.0	110.6	124.5
80°	95.3	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	95.3
82.5°	71.6	66.5	66.5	66.3	65.6	64.8	65.6	66.3	66.5	66.5	71.6
85°	39.0	36.2	30.8	26.0	23.3	20.5	23.3	26.0	30.8	36.2	39.0
87.5°	8.4	7.0	7.5	7.8	8.1	8.0	8.1	7.8	7.5	7.0	8.4
90°	8.1	10.6	13.1	14.5	15.9	15.2	15.9	14.5	13.1	10.6	8.1
92.5°	16.4	20.5	23.6	26.1	27.3	27.1	27.3	26.1	23.6	20.5	16.4
95°	32.9	37.9	42.9	46.4	48.5	47.8	48.5	46.4	42.9	37.9	32.9
97.5°	50.8	57.5	63.0	66.3	68.4	69.9	68.4	66.3	63.0	57.5	50.8
100°	62.7	69.1	75.4	79.3	82.9	84.3	82.9	79.3	75.4	69.1	62.7
102.5°	72.3	80.7	87.6	91.8	94.8	96.2	94.8	91.8	87.6	80.7	72.3
105°	88.2	97.1	104.5	109.8	113.0	114.1	113.0	109.8	104.5	97.1	88.2
107.5°	104.1	113.2	120.1	126.0	129.9	132.1	129.9	126.0	120.1	113.2	104.1
110°	116.5	124.0	131.4	136.7	140.6	142.0	140.6	136.7	131.4	124.0	116.5



TEST NUMBER: P1428196

CATALOG NUMBER: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	127.0	135.3	142.8	148.1	152.5	154.5	152.5	148.1	142.8	135.3	127.0
115°	141.7	152.7	159.4	164.4	167.5	169.3	167.5	164.4	159.4	152.7	141.7
117.5°	153.9	165.4	172.7	176.5	178.0	179.3	178.0	176.5	172.7	165.4	153.9
120°	161.5	172.2	180.7	185.6	187.4	188.1	187.4	185.6	180.7	172.2	161.5
122.5°	168.6	178.7	186.9	193.0	195.9	196.6	195.9	193.0	186.9	178.7	168.6
125°	178.5	188.1	196.6	202.6	205.8	207.6	205.8	202.6	196.6	188.1	178.5
127.5°	187.2	197.5	205.3	210.8	213.9	215.3	213.9	210.8	205.3	197.5	187.2
130°	192.0	202.6	210.4	216.4	219.3	220.7	219.3	216.4	210.4	202.6	192.0
132.5°	195.7	206.9	214.9	220.4	223.5	224.9	223.5	220.4	214.9	206.9	195.7
135°	200.1	211.8	220.3	225.6	228.5	229.9	228.5	225.6	220.3	211.8	200.1
137.5°	204.0	214.7	223.5	229.1	231.7	232.6	231.7	229.1	223.5	214.7	204.0
140°	206.9	216.1	224.9	230.2	233.1	233.4	233.1	230.2	224.9	216.1	206.9
142.5°	210.6	217.8	225.5	230.8	233.6	234.3	233.6	230.8	225.5	217.8	210.6
145°	217.1	221.4	226.7	231.7	234.1	234.9	234.1	231.7	226.7	221.4	217.1
147.5°	225.4	226.8	229.5	232.8	235.2	235.7	235.2	232.8	229.5	226.8	225.4
150°	231.7	231.3	232.4	234.5	236.6	236.3	236.6	234.5	232.4	231.3	231.7
152.5°	238.7	236.7	236.6	237.6	238.6	238.5	238.6	237.6	236.6	236.7	238.7
155°	250.8	246.9	244.8	244.1	244.1	243.7	244.1	244.1	244.8	246.9	250.8
157.5°	264.0	258.6	255.4	253.7	253.2	252.4	253.2	253.7	255.4	258.6	264.0
160°	273.1	267.1	263.9	261.1	260.0	258.9	260.0	261.1	263.9	267.1	273.1
162.5°	281.6	275.9	272.4	269.8	268.8	267.2	268.8	269.8	272.4	275.9	281.6
165°	295.4	289.4	285.5	283.4	282.0	280.5	282.0	283.4	285.5	289.4	295.4
167.5°	309.2	302.6	300.1	297.7	296.3	293.8	296.3	297.7	300.1	302.6	309.2
170°	317.7	311.7	310.3	308.2	305.7	302.9	305.7	308.2	310.3	311.7	317.7
172.5°	325.1	321.1	319.7	317.5	316.7	314.5	316.7	317.5	319.7	321.1	325.1
175°	335.8	332.6	332.6	332.3	331.2	329.1	331.2	332.3	332.6	332.6	335.8
177.5°	344.7	343.0	344.2	344.2	343.9	341.9	343.9	344.2	344.2	343.0	344.7
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1428196

CATALOG NUMBER: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2012.6	2012.6	2012.6	2012.6
2.5°	2021.4	2026.3	2015.4	2004.4
5°	2029.7	2033.4	2017.9	2002.4
7.5°	2047.8	2046.1	2024.0	2002.0
10°	2057.1	2053.2	2026.8	2000.3
12.5°	2048.9	2052.1	2021.3	1990.5
15°	2019.5	2034.3	1997.8	1961.3
17.5°	1973.0	1986.3	1948.2	1910.0
20°	1942.9	1952.0	1914.6	1877.2
22.5°	1916.6	1922.4	1885.1	1847.7
25°	1871.8	1871.1	1838.2	1805.4
27.5°	1812.5	1799.8	1780.4	1761.1
30°	1772.6	1748.9	1736.1	1723.4
32.5°	1731.0	1697.6	1690.0	1682.3
35°	1670.0	1627.4	1621.0	1614.6
37.5°	1595.2	1560.5	1547.3	1534.2
40°	1542.1	1518.9	1497.0	1475.1
42.5°	1478.1	1472.9	1437.9	1402.9
45°	1356.1	1383.2	1335.8	1288.4
47.5°	1199.6	1250.8	1202.1	1153.4
50°	1085.3	1143.2	1104.0	1064.8
52.5°	973.7	1031.0	1002.8	974.5
55°	811.1	864.2	849.6	835.0
57.5°	675.3	725.6	716.3	707.0
60°	591.5	642.6	636.2	629.8
62.5°	519.9	569.1	564.2	559.3
65°	426.7	468.7	464.1	459.6
67.5°	350.6	385.1	382.7	380.4
70°	305.7	336.2	335.3	334.4
72.5°	263.6	290.8	292.1	293.4
75°	203.8	226.4	229.1	231.8
77.5°	148.5	167.3	170.2	173.2
80°	113.5	128.1	131.8	135.4
82.5°	81.8	90.7	95.8	100.9
85°	39.0	40.1	44.7	49.2
87.5°	11.7	13.9	13.6	13.3
90°	6.4	3.9	2.5	1.1
92.5°	13.7	9.6	6.7	3.9
95°	27.6	22.0	15.6	11.0
97.5°	44.0	34.9	28.6	21.0
100°	52.8	43.9	37.9	29.8
102.5°	62.4	55.0	46.7	38.5
105°	79.7	70.5	60.9	51.7
107.5°	95.7	85.6	74.1	65.8
110°	105.9	94.9	82.9	75.4



TEST NUMBER: P1428196

CATALOG NUMBER: SQ2W-PR1-K-025U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	115.8	104.6	92.2	84.8
115°	129.3	116.9	105.6	99.2
117.5°	142.3	129.5	117.5	112.5
120°	150.2	137.4	125.7	121.9
122.5°	156.7	144.2	133.4	131.8
125°	166.5	153.7	144.5	146.6
127.5°	174.4	162.7	156.9	161.7
130°	179.2	169.0	165.4	172.2
132.5°	183.5	175.5	173.9	183.2
135°	189.9	185.3	186.7	199.4
137.5°	197.4	195.7	200.4	216.5
140°	202.3	203.3	210.1	228.1
142.5°	208.8	211.3	220.0	239.2
145°	218.9	224.2	235.6	254.7
147.5°	230.4	237.3	251.3	270.9
150°	238.0	246.9	261.8	280.5
152.5°	246.8	256.0	270.8	289.9
155°	260.4	270.6	286.2	302.5
157.5°	274.2	284.7	299.5	313.8
160°	282.7	294.0	307.5	320.6
162.5°	292.3	302.8	314.6	326.2
165°	306.4	314.9	324.5	334.4
167.5°	318.2	325.3	332.8	340.6
170°	325.9	331.6	337.9	344.0
172.5°	332.4	336.9	341.6	346.8
175°	341.1	343.6	346.4	349.6
177.5°	347.8	348.7	349.5	351.0
180°	350.7	350.7	350.7	350.7



TEST NUMBER: P1428196  
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**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	21.42	22.59	22.04	23.22	23.94	17.79	18.96	18.41	19.59	20.31
	3H	22.65	23.70	23.29	24.34	25.09	18.97	20.02	19.61	20.66	21.42
	4H	23.15	24.13	23.81	24.79	25.56	19.45	20.44	20.11	21.09	21.86
	6H	23.46	24.37	24.13	25.03	25.82	19.81	20.72	20.48	21.38	22.16
	8H	23.57	24.44	24.26	25.12	25.91	19.96	20.82	20.64	21.50	22.29
	12H	23.62	24.45	24.31	25.12	25.94	20.00	20.82	20.68	21.50	22.31
4H	2H	21.56	22.55	22.22	23.20	23.97	18.54	19.52	19.20	20.18	20.94
	3H	23.05	23.86	23.72	24.56	25.34	19.92	20.74	20.60	21.43	22.21
	4H	23.69	24.43	24.38	25.12	25.94	20.48	21.21	21.17	21.91	22.73
	6H	24.14	24.77	24.85	25.49	26.32	20.93	21.56	21.64	22.28	23.11
	8H	24.30	24.89	25.02	25.61	26.45	21.12	21.71	21.83	22.43	23.27
	12H	24.38	24.91	25.12	25.66	26.50	21.18	21.71	21.91	22.45	23.30
8H	4H	23.74	24.33	24.45	25.05	25.89	20.83	21.42	21.54	22.14	22.98
	6H	24.28	24.77	25.02	25.53	26.37	21.38	21.87	22.12	22.63	23.47
	8H	24.51	24.95	25.27	25.72	26.57	21.64	22.08	22.40	22.84	23.70
	12H	24.64	25.03	25.40	25.78	26.70	21.75	22.13	22.51	22.89	23.81
12H	4H	23.71	24.24	24.44	24.98	25.83	20.86	21.39	21.60	22.14	22.98
	6H	24.27	24.71	25.03	25.47	26.33	21.45	21.89	22.21	22.65	23.51
	8H	24.53	24.92	25.29	25.67	26.59	21.75	22.14	22.51	22.89	23.81