

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: P1427914

Luminaire Tested: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427914
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-075U-125D-L940-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 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

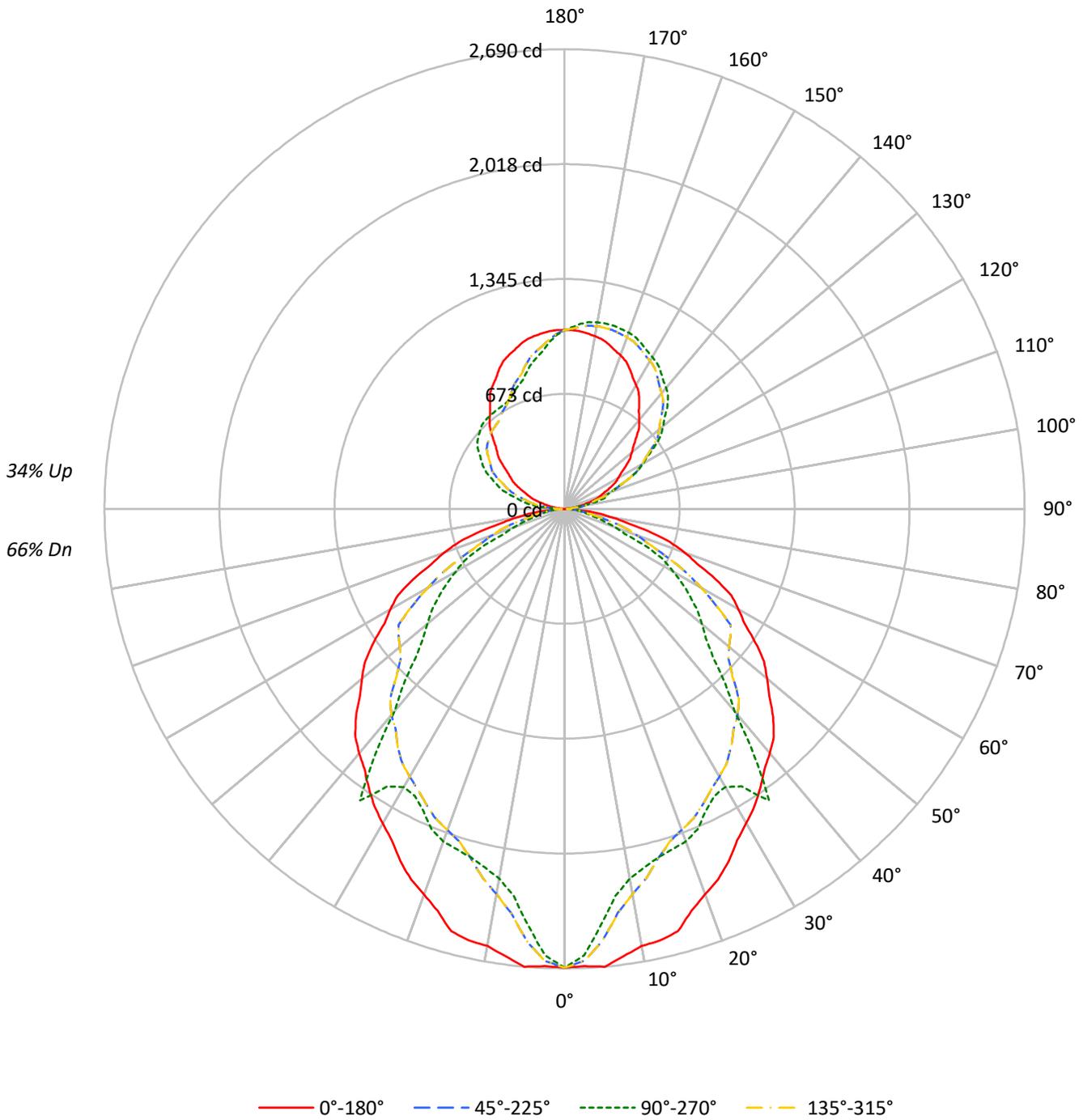
Lumens per Lamp: N/A
Luminaire Lumens: 8995.2 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 72.8
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	102	97	93	90	96	92	88	85	81	79	77	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	70	72	67	64	63	60	57	56	53	51	47				
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	50	46	44	40				
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35				
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30				
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	27				
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	31	26	23	21				
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21	19				
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43348	43348	43348	43348
5°	43597	39622	43597	39622
10°	42593	36017	42593	36017
15°	42786	35312	42786	35312
20°	41259	35597	41259	35597
25°	40503	34769	40503	34769
30°	39624	35053	39624	35053
35°	39324	41086	39324	41086
40°	39358	32574	39358	32574
45°	39371	28055	39371	28055
50°	38820	26309	38820	26309
55°	38328	25241	38328	25241
60°	37945	23676	37945	23676
65°	37279	20592	37279	20592
70°	35211	14714	35211	14714
75°	31390	11154	31390	11154
80°	25653	10451	25653	10451
85°	16098	7095	16098	7095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	2.6
10°-20°	621.4	6.9
20°-30°	911.1	10.1
30°-40°	1103.2	12.3
40°-50°	1084.8	12.1
50°-60°	943.6	10.5
60°-70°	656.3	7.3
70°-80°	311.2	3.5
80°-90°	72.9	0.8
90°-100°	83.3	0.9
100°-110°	242.8	2.7
110°-120°	396.2	4.4
120°-130°	502.8	5.6
130°-140°	538.0	6.0
140°-150°	502.4	5.6
150°-160°	413.4	4.6
160°-170°	277.2	3.1
170°-180°	98.4	1.1
0°-30°	1768.7	19.7
0°-40°	2871.9	31.9
0°-60°	4900.3	54.5
0°-90°	5940.7	66.0
90°-120°	722.3	8.0
90°-150°	2265.4	25.2
90°-180°	3054.0	34.0
0°-180°	8995.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2685	2685	2685	2685	2685	
5°	2690	2445	2690	2445	2690	253
15°	2560	2113	2560	2113	2560	714
25°	2274	1952	2274	1952	2274	1046
35°	1995	2084	1995	2084	1995	1250
45°	1724	1229	1724	1229	1724	1325
55°	1362	897	1362	897	1362	1216
65°	976	539	976	539	976	959
75°	503	179	503	179	503	533
85°	87	38	87	38	87	116
90°	3	23	3	45	3	5
95°	33	24	33	143	33	40
105°	154	247	154	340	154	164
115°	296	410	296	505	296	292
125°	438	650	438	619	438	391
135°	595	851	595	686	595	460
145°	760	981	760	701	760	475
155°	902	1065	902	727	902	415
165°	998	1111	998	837	998	281
175°	1043	1087	1043	982	1043	99
180°	1046	1046	1046	1046	1046	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2678.7	2691.4	2704.1	2686.2	2658.1	2638.5	2627.6	2619.0	2617.2	2615.4	2617.2
5°	2690.0	2688.8	2687.7	2634.6	2564.2	2511.4	2476.2	2449.3	2447.0	2444.7	2447.0
7.5°	2640.9	2605.7	2570.5	2499.2	2415.9	2354.8	2316.0	2286.4	2284.6	2282.8	2284.6
10°	2598.0	2544.6	2491.3	2410.7	2321.0	2258.5	2223.3	2196.9	2196.9	2196.9	2196.9
12.5°	2587.8	2503.5	2419.3	2331.0	2241.3	2183.4	2157.2	2139.0	2144.5	2149.9	2144.5
15°	2559.7	2432.5	2305.4	2215.7	2138.5	2096.4	2089.6	2087.6	2100.1	2112.6	2100.1
17.5°	2466.7	2329.8	2192.8	2114.0	2054.5	2032.0	2046.5	2061.1	2075.6	2090.1	2075.6
20°	2401.3	2266.2	2131.1	2058.1	2005.9	1993.4	2020.7	2044.5	2058.1	2071.8	2058.1
22.5°	2346.1	2209.2	2072.3	2007.7	1967.3	1962.1	1992.0	2016.3	2023.6	2030.9	2023.6
25°	2273.6	2119.2	1964.7	1917.6	1906.3	1913.7	1939.8	1958.5	1955.1	1951.7	1955.1
27.5°	2186.7	2025.5	1864.3	1834.0	1847.4	1862.1	1877.9	1890.4	1892.4	1894.5	1892.4
30°	2125.4	1964.2	1803.0	1778.8	1800.4	1819.1	1835.0	1850.6	1865.4	1880.2	1865.4
32.5°	2066.1	1899.5	1732.8	1715.5	1747.9	1783.0	1820.7	1857.5	1891.3	1925.1	1891.3
35°	1995.1	1821.4	1647.7	1634.1	1673.8	1724.9	1787.3	1862.0	1973.3	2084.5	1973.3
37.5°	1920.5	1734.3	1548.1	1541.9	1595.8	1649.6	1703.4	1752.6	1788.0	1823.4	1788.0
40°	1867.4	1672.1	1476.8	1476.5	1541.3	1608.2	1677.5	1709.0	1627.3	1545.5	1627.3
42.5°	1810.2	1614.9	1419.6	1413.9	1471.3	1545.1	1635.3	1668.4	1530.3	1392.2	1530.3
45°	1724.3	1521.1	1317.9	1310.5	1368.4	1409.3	1433.1	1426.3	1327.5	1228.7	1327.5
47.5°	1623.2	1429.5	1235.8	1234.2	1296.6	1301.2	1247.8	1198.1	1159.5	1120.9	1159.5
50°	1545.5	1362.7	1179.9	1187.9	1259.4	1252.6	1167.4	1097.3	1072.3	1047.4	1072.3
52.5°	1469.9	1296.2	1122.5	1143.6	1229.7	1216.0	1102.7	1013.5	996.7	979.9	996.7
55°	1361.6	1194.7	1027.8	1075.5	1194.7	1176.5	1021.0	903.5	900.1	896.7	900.1
57.5°	1246.6	1088.8	931.0	964.1	1060.8	1041.8	906.9	807.2	813.1	819.0	813.1
60°	1175.1	1021.8	868.6	872.8	929.6	911.4	818.3	746.8	740.0	733.2	740.0
62.5°	1099.5	953.5	807.5	786.3	806.7	785.4	722.3	673.2	666.4	659.6	666.4
65°	975.8	843.0	710.2	670.1	661.1	630.4	578.2	539.0	539.0	539.0	539.0
67.5°	839.9	724.1	608.3	563.5	542.4	512.0	472.3	435.6	408.4	381.1	408.4
70°	745.9	643.8	541.6	494.7	466.4	430.0	385.7	348.0	329.8	311.7	329.8
72.5°	645.8	558.1	470.5	422.5	387.8	352.4	316.3	284.0	263.1	242.2	263.1
75°	503.2	432.9	362.5	315.9	277.3	241.5	208.6	183.4	181.1	178.8	181.1
77.5°	363.8	312.5	261.1	223.4	190.3	165.4	148.8	136.5	136.7	136.9	136.7
80°	275.9	237.3	198.7	163.5	129.4	111.8	110.7	110.1	111.3	112.4	111.3
82.5°	194.1	165.5	136.9	114.4	94.0	84.6	86.2	87.4	87.6	87.9	87.6
85°	86.9	73.2	59.6	54.5	52.2	48.8	44.3	40.6	39.5	38.3	39.5
87.5°	19.0	19.0	19.1	17.7	15.6	14.4	14.4	14.7	14.9	14.9	14.9
90°	3.2	7.4	12.7	16.9	20.1	21.1	21.1	22.2	23.2	23.2	23.2
92.5°	11.6	18.4	18.6	18.6	22.6	24.5	26.2	26.4	27.5	27.5	27.5
95°	32.8	35.9	53.9	52.8	35.9	28.5	24.3	24.3	24.3	24.3	24.3
97.5°	62.6	67.2	70.2	94.0	99.3	95.9	78.2	65.7	58.8	55.6	58.8
100°	88.8	90.9	97.2	98.3	124.7	150.0	137.4	121.5	116.2	113.1	116.2
102.5°	115.0	116.2	126.0	130.4	136.5	150.9	194.9	190.0	186.4	185.8	186.4
105°	154.3	155.3	173.3	181.7	186.0	186.0	184.9	206.1	239.9	247.3	239.9
107.5°	196.3	201.2	222.3	244.9	249.8	251.1	245.6	242.4	241.1	242.0	241.1
110°	225.1	232.5	257.8	286.4	293.8	295.9	293.8	290.6	288.5	288.5	288.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	253.0	263.7	292.5	325.2	337.7	344.1	339.4	337.1	335.0	336.7	335.0
115°	295.9	311.7	349.8	383.6	408.9	412.1	411.0	411.0	410.0	410.0	410.0
117.5°	335.6	361.0	403.7	443.0	472.3	480.8	485.0	483.7	482.5	484.6	482.5
120°	363.5	393.1	441.7	486.1	514.6	527.3	531.5	529.4	531.5	529.4	531.5
122.5°	393.1	429.4	477.2	523.3	556.9	571.2	576.3	576.7	577.2	575.9	577.2
125°	437.5	481.8	537.8	585.4	620.3	637.2	641.4	642.5	644.6	649.9	644.6
127.5°	482.3	532.6	594.1	639.9	675.6	696.1	702.7	705.0	709.5	711.8	709.5
130°	513.5	570.6	632.9	676.3	711.1	733.3	745.0	748.1	753.4	752.4	753.4
132.5°	546.5	606.1	669.3	714.3	746.6	770.5	780.5	789.5	791.5	792.9	791.5
135°	594.9	659.4	722.8	767.1	797.8	821.0	833.7	842.2	847.5	850.6	847.5
137.5°	645.8	713.9	774.8	814.3	845.1	865.2	879.6	888.5	893.9	896.5	893.9
140°	680.5	746.0	805.2	846.4	873.9	893.9	906.6	917.2	923.5	923.5	923.5
142.5°	713.5	778.1	835.6	876.8	900.9	919.3	932.8	940.9	948.0	948.0	948.0
145°	759.7	824.2	877.0	918.3	938.3	955.2	970.0	976.4	980.6	980.6	980.6
147.5°	808.1	865.2	913.4	952.9	969.8	989.7	1001.3	1006.4	1011.7	1009.3	1011.7
150°	836.9	889.7	936.2	973.2	990.1	1009.1	1020.7	1025.0	1030.3	1027.1	1030.3
152.5°	864.8	915.1	957.3	991.8	1006.2	1025.2	1038.5	1042.7	1046.3	1044.0	1046.3
155°	902.4	946.8	985.9	1017.6	1030.3	1048.2	1060.9	1066.2	1070.4	1065.1	1070.4
157.5°	936.0	974.3	1008.3	1037.4	1051.0	1066.4	1078.2	1084.8	1089.0	1086.7	1089.0
160°	956.3	991.2	1021.8	1049.3	1062.0	1075.7	1088.4	1095.8	1100.0	1096.8	1100.0
162.5°	973.2	1004.7	1033.6	1058.6	1069.6	1081.6	1096.8	1103.4	1107.6	1103.6	1107.6
165°	997.5	1022.9	1048.2	1069.4	1078.9	1088.4	1104.2	1111.6	1114.8	1110.6	1114.8
167.5°	1015.9	1035.3	1055.8	1074.0	1081.0	1090.3	1106.1	1112.3	1116.3	1111.0	1116.3
170°	1026.0	1042.9	1060.9	1075.7	1081.0	1089.4	1105.3	1110.6	1113.7	1108.5	1113.7
172.5°	1034.5	1047.2	1061.7	1074.9	1077.6	1084.4	1099.4	1104.6	1107.0	1102.5	1107.0
175°	1042.9	1050.3	1060.9	1069.4	1068.3	1072.5	1085.2	1089.4	1093.7	1087.3	1093.7
177.5°	1047.0	1050.3	1053.7	1058.8	1055.4	1055.4	1064.7	1067.2	1068.1	1064.7	1068.1
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2619.0	2627.6	2638.5	2658.1	2686.2	2704.1	2691.4	2678.7	2691.4	2704.1	2686.2
5°	2449.3	2476.2	2511.4	2564.2	2634.6	2687.7	2688.8	2690.0	2688.8	2687.7	2634.6
7.5°	2286.4	2316.0	2354.8	2415.9	2499.2	2570.5	2605.7	2640.9	2605.7	2570.5	2499.2
10°	2196.9	2223.3	2258.5	2321.0	2410.7	2491.3	2544.6	2598.0	2544.6	2491.3	2410.7
12.5°	2139.0	2157.2	2183.4	2241.3	2331.0	2419.3	2503.5	2587.8	2503.5	2419.3	2331.0
15°	2087.6	2089.6	2096.4	2138.5	2215.7	2305.4	2432.5	2559.7	2432.5	2305.4	2215.7
17.5°	2061.1	2046.5	2032.0	2054.5	2114.0	2192.8	2329.8	2466.7	2329.8	2192.8	2114.0
20°	2044.5	2020.7	1993.4	2005.9	2058.1	2131.1	2266.2	2401.3	2266.2	2131.1	2058.1
22.5°	2016.3	1992.0	1962.1	1967.3	2007.7	2072.3	2209.2	2346.1	2209.2	2072.3	2007.7
25°	1958.5	1939.8	1913.7	1906.3	1917.6	1964.7	2119.2	2273.6	2119.2	1964.7	1917.6
27.5°	1890.4	1877.9	1862.1	1847.4	1834.0	1864.3	2025.5	2186.7	2025.5	1864.3	1834.0
30°	1850.6	1835.0	1819.1	1800.4	1778.8	1803.0	1964.2	2125.4	1964.2	1803.0	1778.8
32.5°	1857.5	1820.7	1783.0	1747.9	1715.5	1732.8	1899.5	2066.1	1899.5	1732.8	1715.5
35°	1862.0	1787.3	1724.9	1673.8	1634.1	1647.7	1821.4	1995.1	1821.4	1647.7	1634.1
37.5°	1752.6	1703.4	1649.6	1595.8	1541.9	1548.1	1734.3	1920.5	1734.3	1548.1	1541.9
40°	1709.0	1677.5	1608.2	1541.3	1476.5	1476.8	1672.1	1867.4	1672.1	1476.8	1476.5
42.5°	1668.4	1635.3	1545.1	1471.3	1413.9	1419.6	1614.9	1810.2	1614.9	1419.6	1413.9
45°	1426.3	1433.1	1409.3	1368.4	1310.5	1317.9	1521.1	1724.3	1521.1	1317.9	1310.5
47.5°	1198.1	1247.8	1301.2	1296.6	1234.2	1235.8	1429.5	1623.2	1429.5	1235.8	1234.2
50°	1097.3	1167.4	1252.6	1259.4	1187.9	1179.9	1362.7	1545.5	1362.7	1179.9	1187.9
52.5°	1013.5	1102.7	1216.0	1229.7	1143.6	1122.5	1296.2	1469.9	1296.2	1122.5	1143.6
55°	903.5	1021.0	1176.5	1194.7	1075.5	1027.8	1194.7	1361.6	1194.7	1027.8	1075.5
57.5°	807.2	906.9	1041.8	1060.8	964.1	931.0	1088.8	1246.6	1088.8	931.0	964.1
60°	746.8	818.3	911.4	929.6	872.8	868.6	1021.8	1175.1	1021.8	868.6	872.8
62.5°	673.2	722.3	785.4	806.7	786.3	807.5	953.5	1099.5	953.5	807.5	786.3
65°	539.0	578.2	630.4	661.1	670.1	710.2	843.0	975.8	843.0	710.2	670.1
67.5°	435.6	472.3	512.0	542.4	563.5	608.3	724.1	839.9	724.1	608.3	563.5
70°	348.0	385.7	430.0	466.4	494.7	541.6	643.8	745.9	643.8	541.6	494.7
72.5°	284.0	316.3	352.4	387.8	422.5	470.5	558.1	645.8	558.1	470.5	422.5
75°	183.4	208.6	241.5	277.3	315.9	362.5	432.9	503.2	432.9	362.5	315.9
77.5°	136.5	148.8	165.4	190.3	223.4	261.1	312.5	363.8	312.5	261.1	223.4
80°	110.1	110.7	111.8	129.4	163.5	198.7	237.3	275.9	237.3	198.7	163.5
82.5°	87.4	86.2	84.6	94.0	114.4	136.9	165.5	194.1	165.5	136.9	114.4
85°	40.6	44.3	48.8	52.2	54.5	59.6	73.2	86.9	73.2	59.6	54.5
87.5°	14.7	14.4	14.4	15.6	17.7	19.1	19.0	19.0	19.0	18.9	18.1
90°	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4	11.6	19.0
92.5°	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1	28.5	41.0
95°	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5	65.5	82.4
97.5°	65.7	78.2	95.9	99.3	94.0	70.2	67.2	62.6	85.2	104.0	131.2
100°	121.5	137.4	150.0	124.7	98.3	97.2	90.9	88.8	113.1	131.0	157.4
102.5°	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3	164.0	186.2
105°	206.1	184.9	186.0	186.0	181.7	173.3	155.3	154.3	181.7	210.3	237.8
107.5°	242.4	245.6	251.1	249.8	244.9	222.3	201.2	196.3	221.1	255.3	285.5
110°	290.6	293.8	295.9	293.8	286.4	257.8	232.5	225.1	247.3	283.2	315.9



TEST NUMBER: P1427914

CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	337.1	339.4	344.1	337.7	325.2	292.5	263.7	253.0	275.2	311.9	345.5
115°	411.0	411.0	412.1	408.9	383.6	349.8	311.7	295.9	314.9	348.7	385.7
117.5°	483.7	485.0	480.8	472.3	443.0	403.7	361.0	335.6	350.6	386.3	424.4
120°	529.4	531.5	527.3	514.6	486.1	441.7	393.1	363.5	375.1	410.0	448.0
122.5°	576.7	576.3	571.2	556.9	523.3	477.2	429.4	393.1	397.9	430.3	467.5
125°	642.5	641.4	637.2	620.3	585.4	537.8	481.8	437.5	431.1	458.6	496.6
127.5°	705.0	702.7	696.1	675.6	639.9	594.1	532.6	482.3	468.1	485.4	520.3
130°	748.1	745.0	733.3	711.1	676.3	632.9	570.6	513.5	493.5	504.0	534.7
132.5°	789.5	780.5	770.5	746.6	714.3	669.3	606.1	546.5	518.8	523.5	547.4
135°	842.2	833.7	821.0	797.8	767.1	722.8	659.4	594.9	556.9	552.6	566.4
137.5°	888.5	879.6	865.2	845.1	814.3	774.8	713.9	645.8	597.9	583.7	589.0
140°	917.2	906.6	893.9	873.9	846.4	805.2	746.0	680.5	626.6	606.5	603.4
142.5°	940.9	932.8	919.3	900.9	876.8	835.6	778.1	713.5	656.2	630.2	622.8
145°	976.4	970.0	955.2	938.3	918.3	877.0	824.2	759.7	702.7	668.9	653.0
147.5°	1006.4	1001.3	989.7	969.8	952.9	913.4	865.2	808.1	749.6	707.8	687.3
150°	1025.0	1020.7	1009.1	990.1	973.2	936.2	889.7	836.9	780.9	736.5	710.1
152.5°	1042.7	1038.5	1025.2	1006.2	991.8	957.3	915.1	864.8	807.9	763.6	736.3
155°	1066.2	1060.9	1048.2	1030.3	1017.6	985.9	946.8	902.4	853.8	807.3	776.7
157.5°	1084.8	1078.2	1066.4	1051.0	1037.4	1008.3	974.3	936.0	893.5	849.1	817.9
160°	1095.8	1088.4	1075.7	1062.0	1049.3	1021.8	991.2	956.3	917.2	877.0	843.2
162.5°	1103.4	1096.8	1081.6	1069.6	1058.6	1033.6	1004.7	973.2	938.3	903.2	872.0
165°	1111.6	1104.2	1088.4	1078.9	1069.4	1048.2	1022.9	997.5	967.9	939.4	914.0
167.5°	1112.3	1106.1	1090.3	1081.0	1074.0	1055.8	1035.3	1015.9	992.9	970.5	949.3
170°	1110.6	1105.3	1089.4	1081.0	1075.7	1060.9	1042.9	1026.0	1008.1	989.0	972.1
172.5°	1104.6	1099.4	1084.4	1077.6	1074.9	1061.7	1047.2	1034.5	1019.1	1005.1	991.6
175°	1089.4	1085.2	1072.5	1068.3	1069.4	1060.9	1050.3	1042.9	1033.4	1025.0	1017.6
177.5°	1067.2	1064.7	1055.4	1055.4	1058.8	1053.7	1050.3	1047.0	1042.7	1040.2	1037.7
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427914

CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2658.1	2638.5	2627.6	2619.0	2617.2	2615.4	2617.2	2619.0	2627.6	2638.5	2658.1
5°	2564.2	2511.4	2476.2	2449.3	2447.0	2444.7	2447.0	2449.3	2476.2	2511.4	2564.2
7.5°	2415.9	2354.8	2316.0	2286.4	2284.6	2282.8	2284.6	2286.4	2316.0	2354.8	2415.9
10°	2321.0	2258.5	2223.3	2196.9	2196.9	2196.9	2196.9	2196.9	2223.3	2258.5	2321.0
12.5°	2241.3	2183.4	2157.2	2139.0	2144.5	2149.9	2144.5	2139.0	2157.2	2183.4	2241.3
15°	2138.5	2096.4	2089.6	2087.6	2100.1	2112.6	2100.1	2087.6	2089.6	2096.4	2138.5
17.5°	2054.5	2032.0	2046.5	2061.1	2075.6	2090.1	2075.6	2061.1	2046.5	2032.0	2054.5
20°	2005.9	1993.4	2020.7	2044.5	2058.1	2071.8	2058.1	2044.5	2020.7	1993.4	2005.9
22.5°	1967.3	1962.1	1992.0	2016.3	2023.6	2030.9	2023.6	2016.3	1992.0	1962.1	1967.3
25°	1906.3	1913.7	1939.8	1958.5	1955.1	1951.7	1955.1	1958.5	1939.8	1913.7	1906.3
27.5°	1847.4	1862.1	1877.9	1890.4	1892.4	1894.5	1892.4	1890.4	1877.9	1862.1	1847.4
30°	1800.4	1819.1	1835.0	1850.6	1865.4	1880.2	1865.4	1850.6	1835.0	1819.1	1800.4
32.5°	1747.9	1783.0	1820.7	1857.5	1891.3	1925.1	1891.3	1857.5	1820.7	1783.0	1747.9
35°	1673.8	1724.9	1787.3	1862.0	1973.3	2084.5	1973.3	1862.0	1787.3	1724.9	1673.8
37.5°	1595.8	1649.6	1703.4	1752.6	1788.0	1823.4	1788.0	1752.6	1703.4	1649.6	1595.8
40°	1541.3	1608.2	1677.5	1709.0	1627.3	1545.5	1627.3	1709.0	1677.5	1608.2	1541.3
42.5°	1471.3	1545.1	1635.3	1668.4	1530.3	1392.2	1530.3	1668.4	1635.3	1545.1	1471.3
45°	1368.4	1409.3	1433.1	1426.3	1327.5	1228.7	1327.5	1426.3	1433.1	1409.3	1368.4
47.5°	1296.6	1301.2	1247.8	1198.1	1159.5	1120.9	1159.5	1198.1	1247.8	1301.2	1296.6
50°	1259.4	1252.6	1167.4	1097.3	1072.3	1047.4	1072.3	1097.3	1167.4	1252.6	1259.4
52.5°	1229.7	1216.0	1102.7	1013.5	996.7	979.9	996.7	1013.5	1102.7	1216.0	1229.7
55°	1194.7	1176.5	1021.0	903.5	900.1	896.7	900.1	903.5	1021.0	1176.5	1194.7
57.5°	1060.8	1041.8	906.9	807.2	813.1	819.0	813.1	807.2	906.9	1041.8	1060.8
60°	929.6	911.4	818.3	746.8	740.0	733.2	740.0	746.8	818.3	911.4	929.6
62.5°	806.7	785.4	722.3	673.2	666.4	659.6	666.4	673.2	722.3	785.4	806.7
65°	661.1	630.4	578.2	539.0	539.0	539.0	539.0	578.2	630.4	661.1	661.1
67.5°	542.4	512.0	472.3	435.6	408.4	381.1	408.4	435.6	472.3	512.0	542.4
70°	466.4	430.0	385.7	348.0	329.8	311.7	329.8	348.0	385.7	430.0	466.4
72.5°	387.8	352.4	316.3	284.0	263.1	242.2	263.1	284.0	316.3	352.4	387.8
75°	277.3	241.5	208.6	183.4	181.1	178.8	181.1	183.4	208.6	241.5	277.3
77.5°	190.3	165.4	148.8	136.5	136.7	136.9	136.7	136.5	148.8	165.4	190.3
80°	129.4	111.8	110.7	110.1	111.3	112.4	111.3	110.1	110.7	111.8	129.4
82.5°	94.0	84.6	86.2	87.4	87.6	87.9	87.6	87.4	86.2	84.6	94.0
85°	52.2	48.8	44.3	40.6	39.5	38.3	39.5	40.6	44.3	48.8	52.2
87.5°	16.4	16.6	18.0	18.9	19.7	19.3	19.7	18.9	18.0	16.6	16.4
90°	24.3	31.7	39.1	43.3	47.6	45.4	47.6	43.3	39.1	31.7	24.3
92.5°	48.8	61.3	70.4	78.0	81.4	80.9	81.4	78.0	70.4	61.3	48.8
95°	98.3	113.1	127.9	138.4	144.8	142.7	144.8	138.4	127.9	113.1	98.3
97.5°	151.5	171.4	187.9	197.8	204.1	208.4	204.1	197.8	187.9	171.4	151.5
100°	187.0	206.1	225.1	236.7	247.3	251.5	247.3	236.7	225.1	206.1	187.0
102.5°	215.8	240.7	261.4	273.9	282.8	287.0	282.8	273.9	261.4	240.7	215.8
105°	263.1	289.5	311.7	327.6	337.1	340.2	337.1	327.6	311.7	289.5	263.1
107.5°	310.5	337.7	358.2	375.8	387.4	394.1	387.4	375.8	358.2	337.7	310.5
110°	347.6	369.8	392.0	407.9	419.5	423.7	419.5	407.9	392.0	369.8	347.6



TEST NUMBER: P1427914

CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	378.9	403.7	425.8	441.7	455.0	460.9	455.0	441.7	425.8	403.7	378.9
115°	422.7	455.4	475.5	490.3	499.8	505.1	499.8	490.3	475.5	455.4	422.7
117.5°	459.0	493.3	515.2	526.6	531.1	534.9	531.1	526.6	515.2	493.3	459.0
120°	481.8	513.5	538.9	553.7	559.0	561.1	559.0	553.7	538.9	513.5	481.8
122.5°	503.0	533.0	557.5	575.7	584.3	586.5	584.3	575.7	557.5	533.0	503.0
125°	532.6	561.1	586.5	604.4	613.9	619.2	613.9	604.4	586.5	561.1	532.6
127.5°	558.3	589.2	612.4	628.7	638.0	642.2	638.0	628.7	612.4	589.2	558.3
130°	572.7	604.4	627.7	645.6	654.1	658.3	654.1	645.6	627.7	604.4	572.7
132.5°	583.7	617.1	641.2	657.5	666.8	671.0	666.8	657.5	641.2	617.1	583.7
135°	597.0	631.9	657.3	673.1	681.6	685.8	681.6	673.1	657.3	631.9	597.0
137.5°	608.6	640.3	666.8	683.5	691.1	693.8	691.1	683.5	666.8	640.3	608.6
140°	617.1	644.6	671.0	686.8	695.3	696.3	695.3	686.8	671.0	644.6	617.1
142.5°	628.1	649.6	672.7	688.5	697.0	698.9	697.0	688.5	672.7	649.6	628.1
145°	647.7	660.4	676.3	691.1	698.5	700.6	698.5	691.1	676.3	660.4	647.7
147.5°	672.5	676.5	684.7	694.4	701.6	703.1	701.6	694.4	684.7	676.5	672.5
150°	691.1	690.0	693.2	699.5	705.9	704.8	705.9	699.5	693.2	690.0	691.1
152.5°	712.2	706.1	705.9	708.8	711.8	711.6	711.8	708.8	705.9	706.1	712.2
155°	748.1	736.5	730.2	728.0	728.0	727.0	728.0	728.0	730.2	736.5	748.1
157.5°	787.6	771.4	761.9	756.8	755.3	753.0	755.3	756.8	761.9	771.4	787.6
160°	814.7	796.7	787.2	778.8	775.6	772.4	775.6	778.8	787.2	796.7	814.7
162.5°	840.1	822.9	812.6	805.0	801.8	796.9	801.8	805.0	812.6	822.9	840.1
165°	881.3	863.3	851.7	845.3	841.1	836.9	841.1	845.3	851.7	863.3	881.3
167.5°	922.5	902.8	895.2	888.0	884.0	876.4	884.0	888.0	895.2	902.8	922.5
170°	947.8	929.9	925.6	919.3	911.9	903.5	911.9	919.3	925.6	929.9	947.8
172.5°	969.8	957.8	953.5	947.2	944.9	938.1	944.9	947.2	953.5	957.8	969.8
175°	1001.7	992.2	992.2	991.2	988.0	981.7	988.0	991.2	992.2	992.2	1001.7
177.5°	1028.4	1023.3	1026.7	1026.7	1025.8	1019.9	1025.8	1026.7	1026.7	1023.3	1028.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427914

CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2684.8	2684.8	2684.8	2684.8
2.5°	2686.2	2704.1	2691.4	2678.7
5°	2634.6	2687.7	2688.8	2690.0
7.5°	2499.2	2570.5	2605.7	2640.9
10°	2410.7	2491.3	2544.6	2598.0
12.5°	2331.0	2419.3	2503.5	2587.8
15°	2215.7	2305.4	2432.5	2559.7
17.5°	2114.0	2192.8	2329.8	2466.7
20°	2058.1	2131.1	2266.2	2401.3
22.5°	2007.7	2072.3	2209.2	2346.1
25°	1917.6	1964.7	2119.2	2273.6
27.5°	1834.0	1864.3	2025.5	2186.7
30°	1778.8	1803.0	1964.2	2125.4
32.5°	1715.5	1732.8	1899.5	2066.1
35°	1634.1	1647.7	1821.4	1995.1
37.5°	1541.9	1548.1	1734.3	1920.5
40°	1476.5	1476.8	1672.1	1867.4
42.5°	1413.9	1419.6	1614.9	1810.2
45°	1310.5	1317.9	1521.1	1724.3
47.5°	1234.2	1235.8	1429.5	1623.2
50°	1187.9	1179.9	1362.7	1545.5
52.5°	1143.6	1122.5	1296.2	1469.9
55°	1075.5	1027.8	1194.7	1361.6
57.5°	964.1	931.0	1088.8	1246.6
60°	872.8	868.6	1021.8	1175.1
62.5°	786.3	807.5	953.5	1099.5
65°	670.1	710.2	843.0	975.8
67.5°	563.5	608.3	724.1	839.9
70°	494.7	541.6	643.8	745.9
72.5°	422.5	470.5	558.1	645.8
75°	315.9	362.5	432.9	503.2
77.5°	223.4	261.1	312.5	363.8
80°	163.5	198.7	237.3	275.9
82.5°	114.4	136.9	165.5	194.1
85°	54.5	59.6	73.2	86.9
87.5°	18.1	18.9	19.0	19.0
90°	19.0	11.6	7.4	3.2
92.5°	41.0	28.5	20.1	11.6
95°	82.4	65.5	46.5	32.8
97.5°	131.2	104.0	85.2	62.6
100°	157.4	131.0	113.1	88.8
102.5°	186.2	164.0	139.3	115.0
105°	237.8	210.3	181.7	154.3
107.5°	285.5	255.3	221.1	196.3
110°	315.9	283.2	247.3	225.1

TEST NUMBER: P1427914

CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	345.5	311.9	275.2	253.0
115°	385.7	348.7	314.9	295.9
117.5°	424.4	386.3	350.6	335.6
120°	448.0	410.0	375.1	363.5
122.5°	467.5	430.3	397.9	393.1
125°	496.6	458.6	431.1	437.5
127.5°	520.3	485.4	468.1	482.3
130°	534.7	504.0	493.5	513.5
132.5°	547.4	523.5	518.8	546.5
135°	566.4	552.6	556.9	594.9
137.5°	589.0	583.7	597.9	645.8
140°	603.4	606.5	626.6	680.5
142.5°	622.8	630.2	656.2	713.5
145°	653.0	668.9	702.7	759.7
147.5°	687.3	707.8	749.6	808.1
150°	710.1	736.5	780.9	836.9
152.5°	736.3	763.6	807.9	864.8
155°	776.7	807.3	853.8	902.4
157.5°	817.9	849.1	893.5	936.0
160°	843.2	877.0	917.2	956.3
162.5°	872.0	903.2	938.3	973.2
165°	914.0	939.4	967.9	997.5
167.5°	949.3	970.5	992.9	1015.9
170°	972.1	989.0	1008.1	1026.0
172.5°	991.6	1005.1	1019.1	1034.5
175°	1017.6	1025.0	1033.4	1042.9
177.5°	1037.7	1040.2	1042.7	1047.0
180°	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427914
 CATALOG NUMBER: SQ2W-PH1-K-075U-125D-L940-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	21.34	22.36	22.15	23.18	24.21	20.17	21.18	20.97	22.01	23.04
	3H	23.53	24.44	24.35	25.27	26.33	21.23	22.14	22.05	22.98	24.03
	4H	24.35	25.21	25.18	26.05	27.11	21.48	22.34	22.32	23.19	24.25
	6H	24.82	25.61	25.67	26.47	27.54	21.63	22.42	22.48	23.28	24.35
	8H	24.98	25.73	25.84	26.60	27.68	21.69	22.45	22.55	23.32	24.40
	12H	25.04	25.76	25.91	26.63	27.73	21.71	22.43	22.58	23.29	24.40
4H	2H	21.79	22.65	22.64	23.50	24.56	20.87	21.73	21.71	22.58	23.64
	3H	24.06	24.77	24.91	25.65	26.73	22.12	22.83	22.97	23.71	24.79
	4H	24.94	25.59	25.81	26.47	27.57	22.41	23.06	23.28	23.94	25.04
	6H	25.51	26.07	26.39	26.97	28.08	22.62	23.18	23.50	24.08	25.19
	8H	25.71	26.24	26.60	27.13	28.25	22.71	23.24	23.60	24.13	25.25
	12H	25.80	26.28	26.71	27.19	28.32	22.74	23.22	23.65	24.13	25.26
8H	4H	24.97	25.50	25.86	26.39	27.51	22.65	23.18	23.54	24.07	25.19
	6H	25.61	26.04	26.52	26.98	28.10	22.93	23.36	23.84	24.30	25.42
	8H	25.87	26.26	26.80	27.19	28.33	23.08	23.46	24.00	24.39	25.53
	12H	26.01	26.35	26.94	27.27	28.46	23.15	23.48	24.07	24.41	25.60
12H	4H	24.93	25.40	25.84	26.32	27.45	22.66	23.13	23.56	24.04	25.17
	6H	25.59	25.97	26.51	26.90	28.04	22.96	23.35	23.89	24.28	25.42
	8H	25.87	26.20	26.79	27.13	28.32	23.13	23.47	24.06	24.39	25.58