

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: P1435846

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435846  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FA-K-125U-075D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

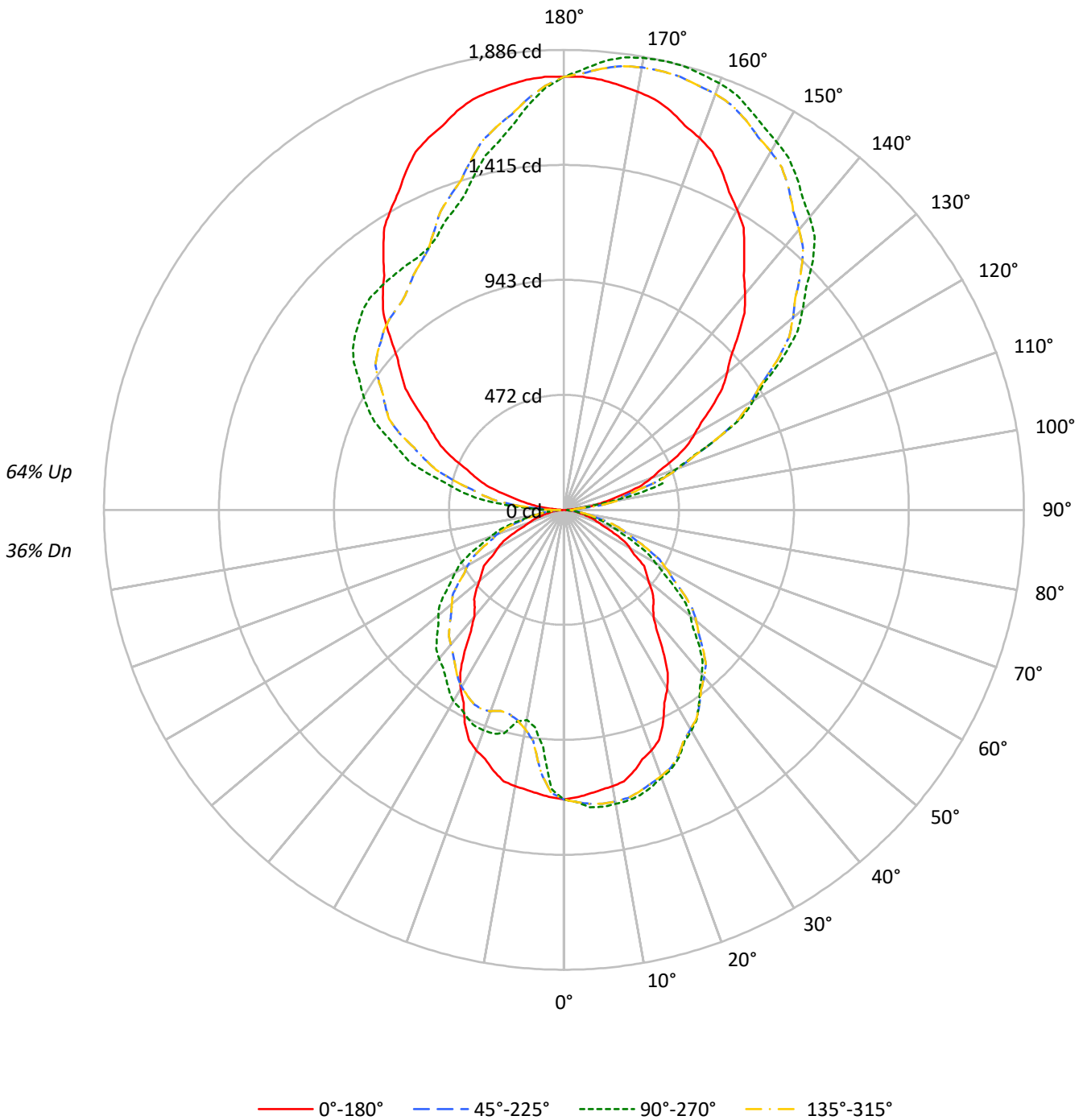
Lumens per Lamp: N/A  
Luminaire Lumens: 8142.3 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 70.7  
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

TEST NUMBER: P1435846

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L940-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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	90°	180°	270°
0°	19178	19178	19178	19178
5°	18953	19847	18953	15818
10°	18870	20077	18870	14340
15°	18545	20239	18545	15853
20°	18036	20092	18036	16532
25°	17141	19929	17141	16732
30°	15793	19484	15793	16909
35°	13974	19056	13974	16606
40°	12033	18533	12033	16787
45°	11878	17872	11878	16819
50°	11333	17000	11333	16884
55°	11274	15682	11274	16718
60°	10110	13976	10110	16649
65°	8619	12313	8619	16183
70°	6954	10433	6954	14997
75°	6032	8615	6032	13786
80°	5132	6425	5132	11130
85°	3409	3409	3409	6817

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 18431 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	1.3
10°-20°	298.6	3.7
20°-30°	453.5	5.6
30°-40°	532.4	6.5
40°-50°	540.3	6.6
50°-60°	473.3	5.8
60°-70°	335.7	4.1
70°-80°	172.8	2.1
80°-90°	43.6	0.5
90°-100°	141.3	1.7
100°-110°	412.2	5.1
110°-120°	672.6	8.3
120°-130°	853.5	10.5
130°-140°	913.3	11.2
140°-150°	852.8	10.5
150°-160°	701.7	8.6
160°-170°	470.6	5.8
170°-180°	167.1	2.1
0°-30°	859.0	10.5
0°-40°	1391.4	17.1
0°-60°	2405.0	29.5
0°-90°	2957.1	36.3
90°-120°	1226.1	15.1
90°-150°	3845.7	47.2
90°-180°	5185.0	63.7
0°-180°	8142.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1169	1225	1169	976	1169	111
15°	1110	1211	1110	948	1110	312
25°	962	1119	962	939	962	439
35°	709	967	709	842	709	442
45°	520	783	520	737	520	398
55°	400	557	400	594	400	346
65°	226	322	226	424	226	225
75°	97	138	97	221	97	105
85°	18	18	18	37	18	23
90°	5	40	5	77	5	5
95°	56	41	56	242	56	67
105°	262	420	262	578	262	279
115°	502	696	502	857	502	495
125°	743	1103	743	1051	743	664
135°	1010	1444	1010	1164	1010	780
145°	1290	1665	1290	1189	1290	807
155°	1532	1808	1532	1234	1532	704
165°	1693	1885	1693	1421	1693	477
175°	1770	1846	1770	1666	1770	168
180°	1776	1776	1776	1776	1776	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1180.4	1188.6	1196.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8	1198.8
5°	1169.4	1183.7	1198.0	1204.7	1208.8	1211.8	1213.9	1216.4	1220.5	1224.6	1220.5
7.5°	1158.3	1177.6	1196.8	1206.2	1212.3	1217.3	1220.9	1224.2	1226.3	1228.3	1226.3
10°	1151.0	1173.5	1196.0	1206.2	1212.3	1216.4	1218.5	1220.5	1222.6	1224.6	1222.6
12.5°	1139.9	1164.1	1188.2	1200.1	1207.8	1212.8	1214.8	1216.8	1218.9	1220.9	1218.9
15°	1109.5	1142.3	1175.0	1187.8	1193.9	1199.0	1203.1	1206.7	1208.8	1210.8	1208.8
17.5°	1071.8	1111.5	1151.2	1167.2	1175.4	1181.3	1185.0	1188.2	1189.8	1191.5	1189.8
20°	1049.7	1092.6	1135.6	1152.5	1160.7	1165.8	1167.8	1169.4	1169.4	1169.4	1169.4
22.5°	1020.2	1068.1	1116.0	1134.1	1142.3	1146.6	1147.0	1147.7	1149.3	1151.0	1149.3
25°	962.2	1017.4	1072.7	1095.7	1108.0	1113.1	1111.1	1110.5	1114.6	1118.7	1114.6
27.5°	891.3	960.9	1030.4	1054.0	1062.2	1067.3	1069.3	1070.9	1070.9	1070.9	1070.9
30°	847.1	924.9	1002.6	1028.2	1036.4	1041.5	1043.5	1045.1	1045.1	1045.1	1045.1
32.5°	791.9	884.3	976.8	1004.9	1011.4	1014.9	1015.3	1015.6	1015.6	1015.6	1015.6
35°	709.0	821.5	934.1	965.3	969.4	971.4	971.4	970.9	968.9	966.8	968.9
37.5°	626.1	753.8	881.5	918.0	924.1	925.8	922.9	920.3	918.2	916.2	918.2
40°	570.9	710.0	849.2	888.5	894.7	894.7	888.5	883.4	881.4	879.3	881.4
42.5°	541.4	678.9	816.4	855.4	861.5	860.7	852.9	846.6	844.5	842.5	844.5
45°	520.2	643.0	765.8	801.1	807.2	806.2	798.0	790.8	786.7	782.7	786.7
47.5°	488.0	596.0	704.1	738.8	749.0	748.0	735.7	725.5	721.4	717.3	721.4
50°	451.2	557.6	664.0	698.2	708.5	707.5	695.2	684.9	680.9	676.8	680.9
52.5°	425.4	525.2	625.1	656.5	665.1	662.4	648.5	637.1	633.0	628.9	633.0
55°	400.5	484.4	568.3	593.9	600.0	595.9	581.6	569.3	563.2	557.1	563.2
57.5°	342.5	422.3	502.1	527.0	533.5	528.6	512.3	498.2	491.3	484.3	491.3
60°	313.1	384.7	456.3	480.3	488.5	484.4	468.1	453.2	443.0	432.8	443.0
62.5°	279.9	343.3	406.8	431.2	442.7	440.2	423.9	409.0	398.8	388.6	398.8
65°	225.6	280.8	336.1	360.6	375.0	373.9	357.6	342.7	332.5	322.3	332.5
67.5°	176.8	224.3	271.7	295.9	312.2	311.4	293.4	277.9	269.7	261.5	269.7
70°	147.3	188.2	229.2	251.7	268.0	268.0	251.7	237.4	229.2	221.0	229.2
72.5°	128.9	160.0	191.1	212.4	230.4	230.4	212.4	197.2	190.7	184.2	190.7
75°	96.7	115.1	133.5	153.5	173.9	176.0	159.6	146.3	142.2	138.1	142.2
77.5°	70.0	78.6	87.2	102.8	120.8	122.9	109.0	98.1	96.5	94.8	96.5
80°	55.2	57.3	59.3	72.1	88.5	90.5	78.3	69.1	69.1	69.1	69.1
82.5°	36.8	38.9	40.9	50.0	61.5	62.7	53.7	46.5	44.9	43.3	44.9
85°	18.4	18.4	18.4	21.5	25.6	25.6	21.5	18.4	18.4	18.4	18.4
87.5°	4.8	6.2	8.0	10.7	13.4	13.7	12.1	11.2	11.6	11.6	11.6
90°	5.4	12.6	21.5	28.7	34.1	35.9	35.9	37.7	39.5	39.5	39.5
92.5°	19.7	31.2	31.6	31.6	38.4	41.6	44.5	44.8	46.6	46.6	46.6
95°	55.6	61.0	91.5	89.7	61.0	48.4	41.3	41.3	41.3	41.3	41.3
97.5°	106.2	114.1	119.1	159.6	168.6	162.9	132.7	111.6	99.7	94.4	99.7
100°	150.7	154.3	165.0	166.8	211.7	254.7	233.2	206.3	197.3	191.9	197.3
102.5°	195.2	197.3	213.8	221.4	231.8	256.2	330.8	322.5	316.4	315.3	316.4
105°	261.9	263.7	294.2	308.5	315.7	315.7	313.9	349.8	407.2	419.7	407.2
107.5°	333.3	341.5	377.4	415.8	424.0	426.2	416.9	411.5	409.3	410.8	409.3
110°	382.1	394.6	437.7	486.1	498.7	502.3	498.7	493.3	489.7	489.7	489.7

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	429.4	447.7	496.5	552.1	573.3	584.1	576.2	572.2	568.6	571.5	568.6
115°	502.3	529.2	593.7	651.1	694.2	699.6	697.8	697.8	696.0	696.0	696.0
117.5°	569.7	612.8	685.2	752.0	801.8	816.2	823.3	821.2	819.0	822.6	819.0
120°	617.1	667.3	749.8	825.1	873.6	895.1	902.3	898.7	902.3	898.7	902.3
122.5°	667.3	729.0	810.1	888.3	945.3	969.7	978.3	979.0	979.8	977.6	979.8
125°	742.6	818.0	913.0	993.8	1052.9	1081.6	1088.8	1090.6	1094.2	1103.2	1094.2
127.5°	818.7	904.1	1008.5	1086.3	1146.9	1181.7	1192.9	1196.8	1204.3	1208.3	1204.3
130°	871.8	968.6	1074.5	1148.0	1207.2	1244.9	1264.6	1270.0	1279.0	1277.2	1279.0
132.5°	927.7	1028.9	1136.2	1212.6	1267.5	1308.0	1324.9	1340.3	1343.5	1346.1	1343.5
135°	1009.9	1119.3	1226.9	1302.3	1354.3	1393.8	1415.3	1429.6	1438.6	1444.0	1438.6
137.5°	1096.4	1211.9	1315.2	1382.3	1434.7	1468.7	1493.1	1508.2	1517.5	1521.8	1517.5
140°	1155.2	1266.4	1366.9	1436.8	1483.5	1517.5	1539.1	1557.0	1567.8	1567.8	1567.8
142.5°	1211.2	1320.9	1418.5	1488.5	1529.4	1560.6	1583.5	1597.2	1609.4	1609.4	1609.4
145°	1289.7	1399.1	1488.8	1558.8	1592.9	1621.6	1646.7	1657.5	1664.6	1664.6	1664.6
147.5°	1371.9	1468.7	1550.5	1617.6	1646.3	1680.1	1699.8	1708.4	1717.4	1713.4	1717.4
150°	1420.7	1510.4	1589.3	1652.1	1680.8	1713.1	1732.8	1740.0	1748.9	1743.6	1748.9
152.5°	1468.0	1553.4	1625.2	1683.6	1708.0	1740.3	1762.9	1770.1	1776.2	1772.3	1776.2
155°	1531.9	1607.2	1673.6	1727.4	1748.9	1779.4	1801.0	1809.9	1817.1	1808.1	1817.1
157.5°	1588.9	1653.9	1711.6	1761.1	1784.1	1810.3	1830.4	1841.5	1848.7	1844.7	1848.7
160°	1623.4	1682.6	1734.6	1781.2	1802.7	1826.1	1847.6	1860.1	1867.3	1861.9	1867.3
162.5°	1652.1	1705.5	1754.7	1797.0	1815.7	1836.1	1861.9	1873.1	1880.2	1873.4	1880.2
165°	1693.3	1736.4	1779.4	1815.3	1831.4	1847.6	1874.5	1887.1	1892.4	1885.3	1892.4
167.5°	1724.5	1757.5	1792.3	1823.2	1835.0	1850.8	1877.7	1888.1	1894.9	1886.0	1894.9
170°	1741.8	1770.5	1801.0	1826.1	1835.0	1849.4	1876.3	1885.3	1890.6	1881.7	1890.6
172.5°	1756.1	1777.6	1802.4	1824.6	1829.3	1840.8	1866.2	1875.2	1879.2	1871.6	1879.2
175°	1770.5	1783.0	1801.0	1815.3	1813.5	1820.7	1842.2	1849.4	1856.6	1845.8	1856.6
177.5°	1777.3	1783.0	1788.8	1797.4	1791.6	1791.6	1807.4	1811.7	1813.2	1807.4	1813.2
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1198.8	1198.8	1198.8	1198.8	1198.8	1196.8	1188.6	1180.4	1180.4	1180.4	1174.3
5°	1216.4	1213.9	1211.8	1208.8	1204.7	1198.0	1183.7	1169.4	1163.2	1157.1	1131.0
7.5°	1224.2	1220.9	1217.3	1212.3	1206.2	1196.8	1177.6	1158.3	1130.9	1103.5	1045.4
10°	1220.5	1218.5	1216.4	1212.3	1206.2	1196.0	1173.5	1151.0	1095.7	1040.5	985.2
12.5°	1216.8	1214.8	1212.8	1207.8	1200.1	1188.2	1164.1	1139.9	1061.7	983.6	933.7
15°	1206.7	1203.1	1199.0	1193.9	1187.8	1175.0	1142.3	1109.5	1021.5	933.6	891.6
17.5°	1188.2	1185.0	1181.3	1175.4	1167.2	1151.2	1111.5	1071.8	979.7	887.6	860.6
20°	1169.4	1167.8	1165.8	1160.7	1152.5	1135.6	1092.6	1049.7	957.6	865.5	853.2
22.5°	1147.7	1147.0	1146.6	1142.3	1134.1	1116.0	1068.1	1020.2	929.8	839.3	839.7
25°	1110.5	1111.1	1113.1	1108.0	1095.7	1072.7	1017.4	962.2	882.4	802.6	816.4
27.5°	1070.9	1069.3	1067.3	1062.2	1054.0	1030.4	960.9	891.3	828.3	765.3	788.2
30°	1045.1	1043.5	1041.5	1036.4	1028.2	1002.6	924.9	847.1	793.9	740.7	767.3
32.5°	1015.6	1015.3	1014.9	1011.4	1004.9	976.8	884.3	791.9	753.4	714.9	742.8
35°	970.9	971.4	971.4	969.4	965.3	934.1	821.5	709.0	692.6	676.3	709.0
37.5°	920.3	922.9	925.8	924.1	918.0	881.5	753.8	626.1	631.4	636.8	676.5
40°	883.4	888.5	894.7	894.7	888.5	849.2	710.0	570.9	589.3	607.7	650.7
42.5°	846.6	852.9	860.7	861.5	855.4	816.4	678.9	541.4	561.5	581.5	626.1
45°	790.8	798.0	806.2	807.2	801.1	765.8	643.0	520.2	532.5	544.8	587.8
47.5°	725.5	735.7	748.0	749.0	738.8	704.1	596.0	488.0	497.0	506.0	550.0
50°	684.9	695.2	707.5	708.5	698.2	664.0	557.6	451.2	463.5	475.7	521.8
52.5°	637.1	648.5	662.4	665.1	656.5	625.1	525.2	425.4	432.8	440.1	489.8
55°	569.3	581.6	595.9	600.0	593.9	568.3	484.4	400.5	394.4	388.3	438.9
57.5°	498.2	512.3	528.6	533.5	527.0	502.1	422.3	342.5	337.2	331.9	386.7
60°	453.2	468.1	484.4	488.5	480.3	456.3	384.7	313.1	302.8	292.6	349.9
62.5°	409.0	423.9	440.2	442.7	431.2	406.8	343.3	279.9	273.0	266.0	321.7
65°	342.7	357.6	373.9	375.0	360.6	336.1	280.8	225.6	229.7	233.8	283.9
67.5°	277.9	293.4	311.4	312.2	295.9	271.7	224.3	176.8	190.3	203.8	248.9
70°	237.4	251.7	268.0	268.0	251.7	229.2	188.2	147.3	165.7	184.2	225.6
72.5°	197.2	212.4	230.4	230.4	212.4	191.1	160.0	128.9	147.3	165.7	199.8
75°	146.3	159.6	176.0	173.9	153.5	133.5	115.1	96.7	115.1	133.5	159.6
77.5°	98.1	109.0	122.9	120.8	102.8	87.2	78.6	70.0	85.1	100.3	118.5
80°	69.1	78.3	90.5	88.5	72.1	59.3	57.3	55.2	65.5	75.7	89.0
82.5°	46.5	53.7	62.7	61.5	50.0	40.9	38.9	36.8	45.4	54.0	63.2
85°	18.4	21.5	25.6	25.6	21.5	18.4	18.4	18.4	22.5	26.6	30.7
87.5°	11.2	12.1	13.7	13.4	10.7	8.0	6.2	4.8	7.8	10.9	13.8
90°	37.7	35.9	35.9	34.1	28.7	21.5	12.6	5.4	12.6	19.7	32.3
92.5°	44.8	44.5	41.6	38.4	31.6	31.6	31.2	19.7	34.1	48.4	69.6
95°	41.3	41.3	48.4	61.0	89.7	91.5	61.0	55.6	78.9	111.2	139.9
97.5°	111.6	132.7	162.9	168.6	159.6	119.1	114.1	106.2	144.6	176.5	222.8
100°	206.3	233.2	254.7	211.7	166.8	165.0	154.3	150.7	191.9	222.4	267.3
102.5°	322.5	330.8	256.2	231.8	221.4	213.8	197.3	195.2	236.4	278.4	316.1
105°	349.8	313.9	315.7	315.7	308.5	294.2	263.7	261.9	308.5	357.0	403.6
107.5°	411.5	416.9	426.2	424.0	415.8	377.4	341.5	333.3	375.3	433.4	484.7
110°	493.3	498.7	502.3	498.7	486.1	437.7	394.6	382.1	419.7	480.7	536.3



TEST NUMBER: P1435846

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	572.2	576.2	584.1	573.3	552.1	496.5	447.7	429.4	467.1	529.5	586.6
115°	697.8	697.8	699.6	694.2	651.1	593.7	529.2	502.3	534.5	591.9	654.7
117.5°	821.2	823.3	816.2	801.8	752.0	685.2	612.8	569.7	595.2	655.8	720.4
120°	898.7	902.3	895.1	873.6	825.1	749.8	667.3	617.1	636.8	696.0	760.6
122.5°	979.0	978.3	969.7	945.3	888.3	810.1	729.0	667.3	675.5	730.4	793.6
125°	1090.6	1088.8	1081.6	1052.9	993.8	913.0	818.0	742.6	731.9	778.5	843.1
127.5°	1196.8	1192.9	1181.7	1146.9	1086.3	1008.5	904.1	818.7	794.6	824.1	883.3
130°	1270.0	1264.6	1244.9	1207.2	1148.0	1074.5	968.6	871.8	837.7	855.6	907.7
132.5°	1340.3	1324.9	1308.0	1267.5	1212.6	1136.2	1028.9	927.7	880.7	888.6	929.2
135°	1429.6	1415.3	1393.8	1354.3	1302.3	1226.9	1119.3	1009.9	945.3	938.1	961.5
137.5°	1508.2	1493.1	1468.7	1434.7	1382.3	1315.2	1211.9	1096.4	1014.9	990.9	999.9
140°	1557.0	1539.1	1517.5	1483.5	1436.8	1366.9	1266.4	1155.2	1063.7	1029.6	1024.2
142.5°	1597.2	1583.5	1560.6	1529.4	1488.5	1418.5	1320.9	1211.2	1113.9	1069.8	1057.3
145°	1657.5	1646.7	1621.6	1592.9	1558.8	1488.8	1399.1	1289.7	1192.9	1135.5	1108.6
147.5°	1708.4	1699.8	1680.1	1646.3	1617.6	1550.5	1468.7	1371.9	1272.5	1201.5	1166.7
150°	1740.0	1732.8	1713.1	1680.8	1652.1	1589.3	1510.4	1420.7	1325.6	1250.3	1205.4
152.5°	1770.1	1762.9	1740.3	1708.0	1683.6	1625.2	1553.4	1468.0	1371.5	1296.2	1249.9
155°	1809.9	1801.0	1779.4	1748.9	1727.4	1673.6	1607.2	1531.9	1449.4	1370.4	1318.4
157.5°	1841.5	1830.4	1810.3	1784.1	1761.1	1711.6	1653.9	1588.9	1516.8	1441.5	1388.4
160°	1860.1	1847.6	1826.1	1802.7	1781.2	1734.6	1682.6	1623.4	1557.0	1488.8	1431.4
162.5°	1873.1	1861.9	1836.1	1815.7	1797.0	1754.7	1705.5	1652.1	1592.9	1533.3	1480.2
165°	1887.1	1874.5	1847.6	1831.4	1815.3	1779.4	1736.4	1693.3	1643.1	1594.7	1551.6
167.5°	1888.1	1877.7	1850.8	1835.0	1823.2	1792.3	1757.5	1724.5	1685.4	1647.4	1611.5
170°	1885.3	1876.3	1849.4	1835.0	1826.1	1801.0	1770.5	1741.8	1711.3	1679.0	1650.3
172.5°	1875.2	1866.2	1840.8	1829.3	1824.6	1802.4	1777.6	1756.1	1729.9	1706.2	1683.3
175°	1849.4	1842.2	1820.7	1813.5	1815.3	1801.0	1783.0	1770.5	1754.3	1740.0	1727.4
177.5°	1811.7	1807.4	1791.6	1791.6	1797.4	1788.8	1783.0	1777.3	1770.1	1765.8	1761.5
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1435846

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1166.1	1159.6	1154.6	1150.5	1148.9	1147.3	1148.9	1150.5	1154.6	1159.6	1166.1
5°	1098.3	1063.5	1026.7	996.5	986.2	976.0	986.2	996.5	1026.7	1063.5	1098.3
7.5°	977.0	935.1	919.5	907.1	903.8	900.5	903.8	907.1	919.5	935.1	977.0
10°	930.0	896.2	883.9	874.7	874.7	874.7	874.7	874.7	883.9	896.2	930.0
12.5°	893.1	872.5	871.7	873.1	881.3	889.5	881.3	873.1	871.7	872.5	893.1
15°	865.0	868.1	900.8	927.9	938.2	948.4	938.2	927.9	900.8	868.1	865.0
17.5°	855.3	872.9	913.4	945.8	954.0	962.2	954.0	945.8	913.4	872.9	855.3
20°	867.6	890.1	920.8	945.8	954.0	962.2	954.0	945.8	920.8	890.1	867.6
22.5°	870.4	897.8	922.0	942.1	950.3	958.5	950.3	942.1	922.0	897.8	870.4
25°	861.4	894.2	914.6	931.0	935.1	939.2	935.1	931.0	914.6	894.2	861.4
27.5°	839.7	875.8	896.2	912.3	915.1	918.0	915.1	912.3	896.2	875.8	839.7
30°	820.5	857.3	877.8	894.7	900.8	907.0	900.8	894.7	877.8	857.3	820.5
32.5°	792.7	830.3	855.7	875.0	876.3	877.5	876.3	875.0	855.7	830.3	792.7
35°	758.1	797.0	825.6	846.6	844.5	842.5	844.5	846.6	825.6	797.0	758.1
37.5°	727.6	765.7	790.6	810.0	812.4	814.9	812.4	810.0	790.6	765.7	727.6
40°	701.8	740.7	767.3	788.3	792.4	796.5	792.4	788.3	767.3	740.7	701.8
42.5°	678.9	718.6	745.2	766.2	770.3	774.4	770.3	766.2	745.2	718.6	678.9
45°	641.0	681.9	710.5	732.5	734.6	736.6	734.6	732.5	710.5	681.9	641.0
47.5°	605.7	646.8	673.4	693.8	695.9	697.9	695.9	693.8	673.4	646.8	605.7
50°	579.1	621.0	647.6	668.1	670.1	672.2	670.1	668.1	647.6	621.0	579.1
52.5°	553.7	597.3	620.6	638.6	640.6	642.7	640.6	638.6	620.6	597.3	553.7
55°	508.5	554.5	577.0	593.9	593.9	593.9	593.9	577.0	554.5	508.5	508.5
57.5°	461.6	508.9	528.5	543.9	546.3	548.8	546.3	543.9	528.5	508.9	461.6
60°	429.7	477.8	494.1	507.4	511.5	515.6	511.5	507.4	494.1	477.8	429.7
62.5°	398.2	444.6	461.0	473.9	476.3	478.8	476.3	473.9	461.0	444.6	398.2
65°	349.4	390.3	406.7	419.5	421.5	423.6	421.5	419.5	406.7	390.3	349.4
67.5°	304.6	338.1	349.6	358.6	360.2	361.9	360.2	358.6	349.6	338.1	304.6
70°	274.7	303.3	311.5	317.7	317.7	317.7	317.7	317.7	311.5	303.3	274.7
72.5°	239.1	262.8	271.0	277.6	279.2	280.8	279.2	277.6	271.0	262.8	239.1
75°	188.2	205.6	211.8	216.9	218.9	221.0	218.9	216.9	211.8	205.6	188.2
77.5°	137.7	149.2	152.8	156.1	158.2	160.2	158.2	156.1	152.8	149.2	137.7
80°	103.3	111.5	113.6	115.6	117.7	119.7	117.7	115.6	113.6	111.5	103.3
82.5°	72.6	78.4	80.4	82.1	82.5	82.9	82.5	82.1	80.4	78.4	72.6
85°	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	34.8
87.5°	15.6	18.1	20.6	22.1	23.5	22.8	23.5	22.1	20.6	18.1	15.6
90°	41.3	53.8	66.4	73.5	80.7	77.1	80.7	73.5	66.4	53.8	41.3
92.5°	82.9	104.0	119.5	132.4	138.1	137.4	138.1	132.4	119.5	104.0	82.9
95°	166.8	191.9	217.0	235.0	245.7	242.2	245.7	235.0	217.0	191.9	166.8
97.5°	257.2	291.0	318.9	335.8	346.6	353.7	346.6	335.8	318.9	291.0	257.2
100°	317.5	349.8	382.1	401.8	419.7	426.9	419.7	401.8	382.1	349.8	317.5
102.5°	366.3	408.6	443.8	464.9	480.0	487.2	480.0	464.9	443.8	408.6	366.3
105°	446.7	491.5	529.2	556.1	572.2	577.6	572.2	556.1	529.2	491.5	446.7
107.5°	527.0	573.3	608.1	637.9	657.6	669.1	657.6	637.9	608.1	573.3	527.0
110°	590.2	627.8	665.5	692.4	712.1	719.3	712.1	692.4	665.5	627.8	590.2



TEST NUMBER: P1435846

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	643.2	685.2	722.9	749.8	772.4	782.4	772.4	749.8	722.9	685.2	643.2
115°	717.5	773.1	807.2	832.3	848.5	857.4	848.5	832.3	807.2	773.1	717.5
117.5°	779.2	837.3	874.6	894.0	901.6	908.0	901.6	894.0	874.6	837.3	779.2
120°	818.0	871.8	914.8	939.9	948.9	952.5	948.9	939.9	914.8	871.8	818.0
122.5°	853.8	904.8	946.4	977.3	992.0	995.5	992.0	977.3	946.4	904.8	853.8
125°	904.1	952.5	995.5	1026.0	1042.2	1051.2	1042.2	1026.0	995.5	952.5	904.1
127.5°	947.8	1000.2	1039.7	1067.3	1083.1	1090.3	1083.1	1067.3	1039.7	1000.2	947.8
130°	972.2	1026.0	1065.5	1096.0	1110.3	1117.5	1110.3	1096.0	1065.5	1026.0	972.2
132.5°	990.9	1047.6	1088.5	1116.1	1131.9	1139.0	1131.9	1116.1	1088.5	1047.6	990.9
135°	1013.5	1072.7	1115.7	1142.6	1157.0	1164.2	1157.0	1142.6	1115.7	1072.7	1013.5
137.5°	1033.2	1087.0	1131.9	1160.2	1173.1	1177.8	1173.1	1160.2	1131.9	1087.0	1033.2
140°	1047.6	1094.2	1139.0	1166.0	1180.3	1182.1	1180.3	1166.0	1139.0	1094.2	1047.6
142.5°	1066.2	1102.8	1141.9	1168.8	1183.2	1186.4	1183.2	1168.8	1141.9	1102.8	1066.2
145°	1099.6	1121.1	1148.0	1173.1	1185.7	1189.3	1185.7	1173.1	1148.0	1121.1	1099.6
147.5°	1141.6	1148.4	1162.4	1178.9	1191.1	1193.6	1191.1	1178.9	1162.4	1148.4	1141.6
150°	1173.1	1171.3	1176.7	1187.5	1198.2	1196.5	1198.2	1187.5	1176.7	1171.3	1173.1
152.5°	1209.0	1198.6	1198.2	1203.3	1208.3	1207.9	1208.3	1203.3	1198.2	1198.6	1209.0
155°	1270.0	1250.3	1239.5	1235.9	1235.9	1234.1	1235.9	1235.9	1239.5	1250.3	1270.0
157.5°	1337.1	1309.5	1293.3	1284.7	1282.2	1278.2	1282.2	1284.7	1293.3	1309.5	1337.1
160°	1383.0	1352.5	1336.4	1322.0	1316.6	1311.3	1316.6	1322.0	1336.4	1352.5	1383.0
162.5°	1426.1	1397.0	1379.4	1366.5	1361.1	1352.9	1361.1	1366.5	1379.4	1397.0	1426.1
165°	1496.0	1465.5	1445.8	1435.0	1427.8	1420.7	1427.8	1435.0	1445.8	1465.5	1496.0
167.5°	1566.0	1532.6	1519.7	1507.5	1500.7	1487.8	1500.7	1507.5	1519.7	1532.6	1566.0
170°	1609.0	1578.5	1571.4	1560.6	1548.0	1533.7	1548.0	1560.6	1571.4	1578.5	1609.0
172.5°	1646.3	1625.9	1618.7	1607.9	1604.0	1592.5	1604.0	1607.9	1618.7	1625.9	1646.3
175°	1700.5	1684.4	1684.4	1682.6	1677.2	1666.4	1677.2	1682.6	1684.4	1684.4	1700.5
177.5°	1745.7	1737.1	1742.8	1742.8	1741.4	1731.4	1741.4	1742.8	1742.8	1737.1	1745.7
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1435846

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1187.8	1187.8	1187.8	1187.8
2.5°	1174.3	1180.4	1180.4	1180.4
5°	1131.0	1157.1	1163.2	1169.4
7.5°	1045.4	1103.5	1130.9	1158.3
10°	985.2	1040.5	1095.7	1151.0
12.5°	933.7	983.6	1061.7	1139.9
15°	891.6	933.6	1021.5	1109.5
17.5°	860.6	887.6	979.7	1071.8
20°	853.2	865.5	957.6	1049.7
22.5°	839.7	839.3	929.8	1020.2
25°	816.4	802.6	882.4	962.2
27.5°	788.2	765.3	828.3	891.3
30°	767.3	740.7	793.9	847.1
32.5°	742.8	714.9	753.4	791.9
35°	709.0	676.3	692.6	709.0
37.5°	676.5	636.8	631.4	626.1
40°	650.7	607.7	589.3	570.9
42.5°	626.1	581.5	561.5	541.4
45°	587.8	544.8	532.5	520.2
47.5°	550.0	506.0	497.0	488.0
50°	521.8	475.7	463.5	451.2
52.5°	489.8	440.1	432.8	425.4
55°	438.9	388.3	394.4	400.5
57.5°	386.7	331.9	337.2	342.5
60°	349.9	292.6	302.8	313.1
62.5°	321.7	266.0	273.0	279.9
65°	283.9	233.8	229.7	225.6
67.5°	248.9	203.8	190.3	176.8
70°	225.6	184.2	165.7	147.3
72.5°	199.8	165.7	147.3	128.9
75°	159.6	133.5	115.1	96.7
77.5°	118.5	100.3	85.1	70.0
80°	89.0	75.7	65.5	55.2
82.5°	63.2	54.0	45.4	36.8
85°	30.7	26.6	22.5	18.4
87.5°	13.8	10.9	7.8	4.8
90°	32.3	19.7	12.6	5.4
92.5°	69.6	48.4	34.1	19.7
95°	139.9	111.2	78.9	55.6
97.5°	222.8	176.5	144.6	106.2
100°	267.3	222.4	191.9	150.7
102.5°	316.1	278.4	236.4	195.2
105°	403.6	357.0	308.5	261.9
107.5°	484.7	433.4	375.3	333.3
110°	536.3	480.7	419.7	382.1



TEST NUMBER: P1435846

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	586.6	529.5	467.1	429.4
115°	654.7	591.9	534.5	502.3
117.5°	720.4	655.8	595.2	569.7
120°	760.6	696.0	636.8	617.1
122.5°	793.6	730.4	675.5	667.3
125°	843.1	778.5	731.9	742.6
127.5°	883.3	824.1	794.6	818.7
130°	907.7	855.6	837.7	871.8
132.5°	929.2	888.6	880.7	927.7
135°	961.5	938.1	945.3	1009.9
137.5°	999.9	990.9	1014.9	1096.4
140°	1024.2	1029.6	1063.7	1155.2
142.5°	1057.3	1069.8	1113.9	1211.2
145°	1108.6	1135.5	1192.9	1289.7
147.5°	1166.7	1201.5	1272.5	1371.9
150°	1205.4	1250.3	1325.6	1420.7
152.5°	1249.9	1296.2	1371.5	1468.0
155°	1318.4	1370.4	1449.4	1531.9
157.5°	1388.4	1441.5	1516.8	1588.9
160°	1431.4	1488.8	1557.0	1623.4
162.5°	1480.2	1533.3	1592.9	1652.1
165°	1551.6	1594.7	1643.1	1693.3
167.5°	1611.5	1647.4	1685.4	1724.5
170°	1650.3	1679.0	1711.3	1741.8
172.5°	1683.3	1706.2	1729.9	1756.1
175°	1727.4	1740.0	1754.3	1770.5
177.5°	1761.5	1765.8	1770.1	1777.3
180°	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1435846  
 CATALOG NUMBER: SQ2W-FA-K-125U-075D-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	15.22	15.97	16.29	17.04	18.49	16.42	17.17	17.49	18.24	19.69
	3H	16.30	16.97	17.38	18.05	19.52	17.65	18.32	18.73	19.40	20.87
	4H	16.65	17.28	17.73	18.36	19.84	18.04	18.67	19.13	19.75	21.23
	6H	16.80	17.39	17.90	18.47	19.96	18.19	18.78	19.29	19.86	21.35
	8H	16.83	17.39	17.93	18.49	19.97	18.21	18.77	19.31	19.87	21.35
	12H	16.83	17.35	17.93	18.45	19.95	18.19	18.72	19.30	19.82	21.32
4H	2H	16.07	16.71	17.17	17.79	19.27	16.99	17.62	18.08	18.70	20.18
	3H	17.45	17.98	18.55	19.09	20.58	18.44	18.97	19.54	20.08	21.57
	4H	17.90	18.39	19.01	19.48	21.00	18.91	19.40	20.02	20.49	22.01
	6H	18.12	18.54	19.24	19.66	21.17	19.13	19.55	20.24	20.66	22.17
	8H	18.18	18.57	19.29	19.68	21.20	19.17	19.56	20.29	20.67	22.20
	12H	18.18	18.53	19.31	19.65	21.18	19.16	19.51	20.29	20.63	22.16
8H	4H	18.28	18.67	19.39	19.78	21.30	19.10	19.49	20.21	20.60	22.12
	6H	18.62	18.94	19.76	20.10	21.61	19.41	19.73	20.54	20.88	22.40
	8H	18.74	19.02	19.88	20.15	21.69	19.50	19.78	20.64	20.92	22.46
	12H	18.77	19.02	19.92	20.15	21.72	19.51	19.76	20.66	20.89	22.46
12H	4H	18.27	18.63	19.40	19.75	21.28	19.06	19.41	20.19	20.54	22.06
	6H	18.69	18.97	19.83	20.11	21.64	19.43	19.71	20.57	20.84	22.38
	8H	18.83	19.08	19.98	20.21	21.78	19.53	19.78	20.68	20.91	22.49