

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: P1435807

Luminaire Tested: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435807  
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-075U-125D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

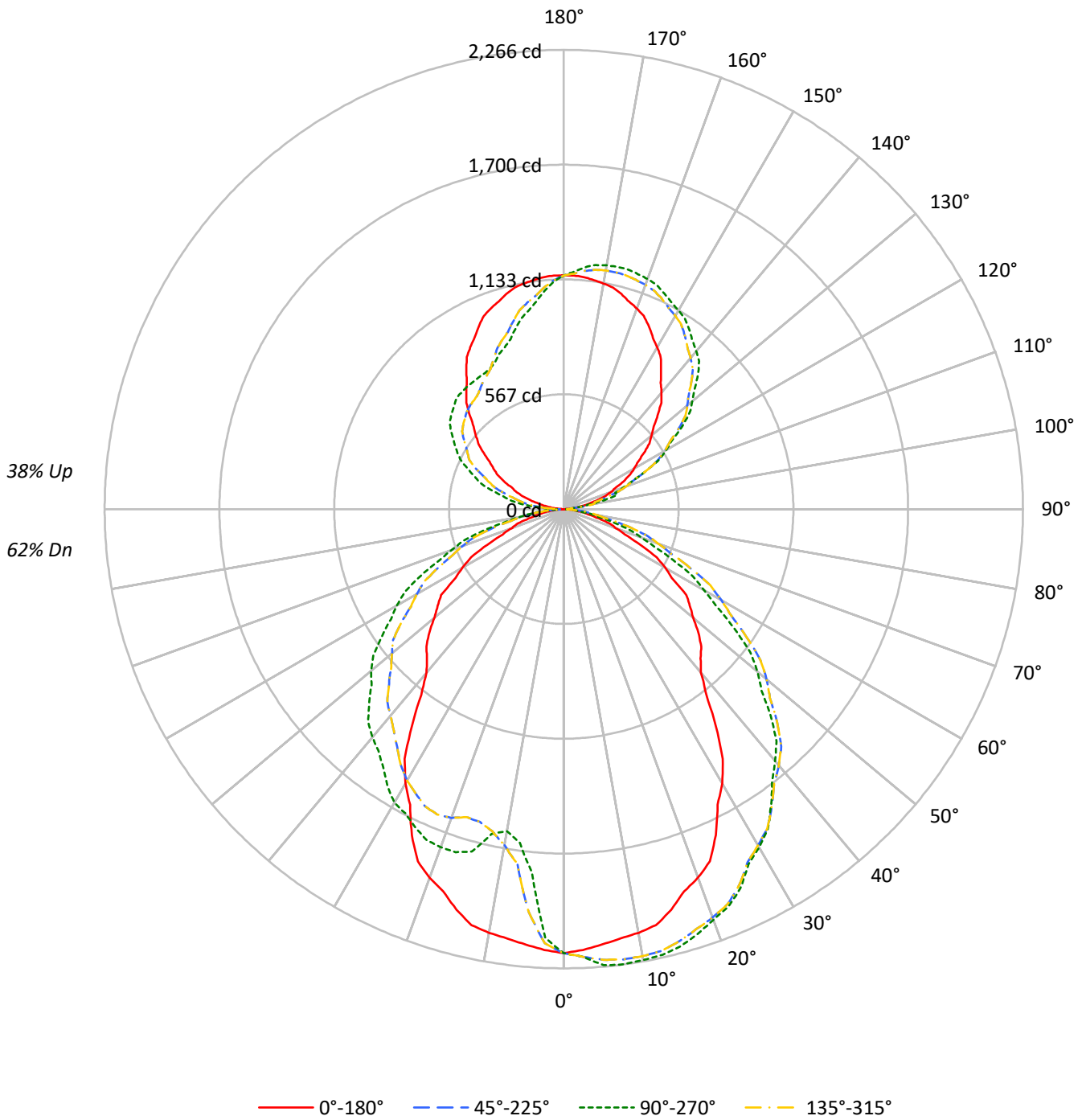
Lumens per Lamp: N/A  
Luminaire Lumens: 8810.8 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 72.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62				
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52				
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44				
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37				
4	77	66	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32				
5	70	58	50	44	66	55	48	42	49	43	38	43	38	34	37	34	31	28				
6	65	52	44	38	60	50	42	37	44	38	33	39	34	30	34	30	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	22				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	22	19				
9	52	39	32	27	49	37	30	26	33	28	23	30	25	21	26	22	19	17				
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16				

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

	0°	90°	180°	270°
0°	35372	35372	35372	35372
5°	34957	36609	34957	29176
10°	34804	37032	34804	26451
15°	34207	37330	34207	29240
20°	33266	37059	33266	30494
25°	31617	36761	31617	30860
30°	29130	35937	29130	31188
35°	25775	35147	25775	30629
40°	22194	34184	22194	30964
45°	21911	32962	21911	31024
50°	20903	31355	20903	31141
55°	20796	28923	20796	30834
60°	18645	25775	18645	30712
65°	15897	22708	15897	29845
70°	12826	19241	12826	27658
75°	11123	15889	11123	25427
80°	9475	11845	9475	20530
85°	6298	6298	6298	12578

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 33996 cd/sqm



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	2.2
10°-20°	550.8	6.3
20°-30°	836.5	9.5
30°-40°	982.1	11.1
40°-50°	996.6	11.3
50°-60°	872.9	9.9
60°-70°	619.2	7.0
70°-80°	318.8	3.6
80°-90°	71.6	0.8
90°-100°	91.7	1.0
100°-110°	267.5	3.0
110°-120°	436.5	5.0
120°-130°	553.9	6.3
130°-140°	592.7	6.7
140°-150°	553.5	6.3
150°-160°	455.4	5.2
160°-170°	305.4	3.5
170°-180°	108.5	1.2
0°-30°	1584.4	18.0
0°-40°	2566.5	29.1
0°-60°	4436.0	50.3
0°-90°	5445.6	61.8
90°-120°	795.8	9.0
90°-150°	2495.9	28.3
90°-180°	3365.0	38.2
0°-180°	8810.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2191	2191	2191	2191	2191	
5°	2157	2259	2157	1800	2157	205
15°	2046	2233	2046	1749	2046	575
25°	1775	2064	1775	1732	1775	810
35°	1308	1783	1308	1554	1308	815
45°	960	1444	960	1359	960	734
55°	739	1028	739	1095	739	639
65°	416	594	416	781	416	416
75°	178	255	178	408	178	193
85°	34	34	34	68	34	43
90°	4	26	4	50	4	4
95°	36	27	36	157	36	44
105°	170	272	170	375	170	181
115°	326	452	326	556	326	321
125°	482	716	482	682	482	431
135°	655	937	655	756	655	506
145°	837	1080	837	772	837	524
155°	994	1174	994	801	994	457
165°	1099	1224	1099	922	1099	309
175°	1149	1198	1149	1082	1149	109
180°	1153	1153	1153	1153	1153	



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2177.3	2192.4	2207.5	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
5°	2156.9	2183.3	2209.7	2222.0	2229.5	2235.2	2239.0	2243.7	2251.2	2258.8	2251.2
7.5°	2136.5	2172.0	2207.5	2224.8	2236.1	2245.2	2252.0	2258.0	2261.8	2265.6	2261.8
10°	2122.9	2164.4	2205.9	2224.8	2236.1	2243.7	2247.5	2251.2	2255.0	2258.8	2255.0
12.5°	2102.5	2147.1	2191.6	2213.5	2227.8	2236.9	2240.7	2244.4	2248.2	2252.0	2248.2
15°	2046.5	2106.9	2167.3	2190.8	2202.2	2211.6	2219.2	2225.8	2229.5	2233.3	2229.5
17.5°	1976.9	2050.1	2123.3	2152.9	2168.0	2179.0	2185.8	2191.6	2194.6	2197.6	2194.6
20°	1936.1	2015.4	2094.6	2125.7	2140.8	2150.3	2154.0	2156.9	2156.9	2156.9	2156.9
22.5°	1881.7	1970.1	2058.4	2091.8	2106.9	2114.8	2115.6	2116.9	2119.9	2122.9	2119.9
25°	1774.8	1876.7	1978.6	2021.0	2043.7	2053.1	2049.3	2048.4	2055.9	2063.5	2055.9
27.5°	1644.0	1772.3	1900.6	1944.0	1959.1	1968.6	1972.3	1975.2	1975.2	1975.2	1975.2
30°	1562.5	1705.9	1849.3	1896.5	1911.6	1921.0	1924.8	1927.6	1927.6	1927.6	1927.6
32.5°	1460.6	1631.2	1801.7	1853.4	1865.5	1871.9	1872.7	1873.3	1873.3	1873.3	1873.3
35°	1307.7	1515.3	1722.9	1780.4	1788.0	1791.7	1791.7	1790.8	1787.0	1783.2	1787.0
37.5°	1154.9	1390.4	1625.9	1693.2	1704.6	1707.6	1702.3	1697.4	1693.6	1689.8	1693.6
40°	1053.0	1309.6	1566.2	1638.9	1650.2	1650.2	1638.9	1629.5	1625.7	1621.9	1625.7
42.5°	998.6	1252.2	1505.9	1577.7	1589.1	1587.6	1573.2	1561.5	1557.7	1554.0	1557.7
45°	959.6	1186.0	1412.4	1477.5	1488.9	1487.0	1471.9	1458.7	1451.1	1443.6	1451.1
47.5°	900.1	1099.4	1298.7	1362.6	1381.5	1379.6	1357.0	1338.1	1330.5	1323.0	1330.5
50°	832.2	1028.4	1224.7	1287.9	1306.8	1304.9	1282.2	1263.4	1255.8	1248.3	1255.8
52.5°	784.6	968.8	1153.0	1210.9	1226.8	1221.9	1196.2	1175.1	1167.5	1160.0	1167.5
55°	738.8	893.5	1048.2	1095.4	1106.7	1099.2	1072.8	1050.1	1038.8	1027.5	1038.8
57.5°	631.8	779.0	926.2	972.0	984.1	975.0	944.8	919.0	906.2	893.3	906.2
60°	577.4	709.5	841.6	886.0	901.1	893.5	863.3	836.0	817.1	798.2	817.1
62.5°	516.3	633.3	750.3	795.4	816.5	812.0	781.8	754.4	735.6	716.7	735.6
65°	416.1	518.0	619.9	665.2	691.6	689.7	659.5	632.2	613.3	594.4	613.3
67.5°	326.1	413.6	501.2	545.7	575.9	574.4	541.2	512.5	497.4	482.3	497.4
70°	271.7	347.2	422.7	464.2	494.4	494.4	464.2	437.8	422.7	407.6	422.7
72.5°	237.8	295.1	352.5	391.7	425.0	425.0	391.7	363.8	351.7	339.7	351.7
75°	178.3	212.3	246.3	283.1	320.8	324.6	294.4	269.8	262.3	254.7	262.3
77.5°	129.1	144.9	160.8	189.6	222.9	226.6	201.0	181.0	177.9	174.9	177.9
80°	101.9	105.7	109.4	133.0	163.2	167.0	144.4	127.4	127.4	127.4	127.4
82.5°	67.9	71.7	75.5	92.3	113.4	115.7	99.1	85.9	82.8	79.8	82.8
85°	34.0	34.0	34.0	39.6	47.2	47.2	39.6	34.0	34.0	34.0	34.0
87.5°	7.5	8.4	9.6	12.8	16.5	16.7	13.7	11.7	11.9	11.9	11.9
90°	3.5	8.1	14.0	18.6	22.1	23.3	23.3	24.4	25.6	25.6	25.6
92.5°	12.8	20.3	20.5	20.5	24.9	27.0	28.9	29.1	30.3	30.3	30.3
95°	36.1	39.6	59.4	58.2	39.6	31.4	26.8	26.8	26.8	26.8	26.8
97.5°	68.9	74.0	77.3	103.6	109.4	105.7	86.2	72.4	64.7	61.2	64.7
100°	97.8	100.1	107.1	108.3	137.4	165.3	151.3	133.9	128.1	124.6	128.1
102.5°	126.7	128.1	138.8	143.7	150.4	166.2	214.7	209.3	205.4	204.7	205.4
105°	170.0	171.1	190.9	200.2	204.9	204.9	203.7	227.0	264.3	272.4	264.3
107.5°	216.3	221.7	244.9	269.9	275.2	276.6	270.6	267.1	265.7	266.6	265.7
110°	248.0	256.1	284.1	315.5	323.6	326.0	323.6	320.2	317.8	317.8	317.8



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	278.7	290.6	322.3	358.3	372.1	379.1	373.9	371.4	369.1	370.9	369.1
115°	326.0	343.4	385.4	422.6	450.5	454.0	452.9	452.9	451.7	451.7	451.7
117.5°	369.7	397.7	444.7	488.0	520.4	529.7	534.4	533.0	531.6	533.9	531.6
120°	400.5	433.1	486.6	535.5	567.0	580.9	585.6	583.3	585.6	583.3	585.6
122.5°	433.1	473.1	525.8	576.5	613.5	629.4	635.0	635.4	635.9	634.5	635.9
125°	482.0	530.9	592.6	645.0	683.4	702.0	706.7	707.8	710.2	716.0	710.2
127.5°	531.3	586.8	654.5	705.0	744.4	767.0	774.2	776.8	781.6	784.2	781.6
130°	565.8	628.7	697.4	745.1	783.5	808.0	820.8	824.3	830.1	828.9	830.1
132.5°	602.1	667.8	737.4	787.0	822.6	848.9	859.9	869.9	872.0	873.6	872.0
135°	655.4	726.5	796.3	845.2	879.0	904.6	918.6	927.9	933.7	937.2	933.7
137.5°	711.6	786.5	853.6	897.1	931.1	953.2	969.1	978.9	984.9	987.7	984.9
140°	749.7	821.9	887.1	932.5	962.8	984.9	998.9	1010.5	1017.5	1017.5	1017.5
142.5°	786.1	857.3	920.6	966.1	992.6	1012.9	1027.8	1036.6	1044.5	1044.5	1044.5
145°	837.1	908.1	966.3	1011.7	1033.8	1052.4	1068.7	1075.7	1080.4	1080.4	1080.4
147.5°	890.4	953.2	1006.3	1049.9	1068.5	1090.4	1103.2	1108.8	1114.6	1112.0	1114.6
150°	922.0	980.3	1031.5	1072.2	1090.9	1111.8	1124.6	1129.3	1135.1	1131.6	1135.1
152.5°	952.8	1008.2	1054.8	1092.7	1108.6	1129.5	1144.2	1148.8	1152.8	1150.2	1152.8
155°	994.2	1043.1	1086.2	1121.1	1135.1	1154.9	1168.9	1174.7	1179.3	1173.5	1179.3
157.5°	1031.2	1073.4	1110.9	1143.0	1157.9	1174.9	1187.9	1195.2	1199.8	1197.3	1199.8
160°	1053.6	1092.0	1125.8	1156.1	1170.0	1185.2	1199.1	1207.3	1211.9	1208.4	1211.9
162.5°	1072.2	1106.9	1138.8	1166.3	1178.4	1191.7	1208.4	1215.7	1220.3	1215.9	1220.3
165°	1099.0	1126.9	1154.9	1178.2	1188.6	1199.1	1216.6	1224.7	1228.2	1223.6	1228.2
167.5°	1119.3	1140.7	1163.3	1183.3	1191.0	1201.2	1218.7	1225.4	1229.9	1224.0	1229.9
170°	1130.4	1149.1	1168.9	1185.2	1191.0	1200.3	1217.8	1223.6	1227.1	1221.2	1227.1
172.5°	1139.8	1153.7	1169.8	1184.2	1187.3	1194.7	1211.2	1217.1	1219.6	1214.7	1219.6
175°	1149.1	1157.2	1168.9	1178.2	1177.0	1181.7	1195.6	1200.3	1204.9	1198.0	1204.9
177.5°	1153.5	1157.2	1160.9	1166.5	1162.8	1162.8	1173.0	1175.8	1176.8	1173.0	1176.8
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2211.2	2211.2	2211.2	2211.2	2211.2	2207.5	2192.4	2177.3	2177.3	2177.3	2165.9
5°	2243.7	2239.0	2235.2	2229.5	2222.0	2209.7	2183.3	2156.9	2145.6	2134.2	2086.1
7.5°	2258.0	2252.0	2245.2	2236.1	2224.8	2207.5	2172.0	2136.5	2085.9	2035.4	1928.2
10°	2251.2	2247.5	2243.7	2236.1	2224.8	2205.9	2164.4	2122.9	2021.0	1919.1	1817.2
12.5°	2244.4	2240.7	2236.9	2227.8	2213.5	2191.6	2147.1	2102.5	1958.4	1814.2	1722.1
15°	2225.8	2219.2	2211.6	2202.2	2190.8	2167.3	2106.9	2046.5	1884.2	1721.9	1644.5
17.5°	2191.6	2185.8	2179.0	2168.0	2152.9	2123.3	2050.1	1976.9	1807.0	1637.2	1587.4
20°	2156.9	2154.0	2150.3	2140.8	2125.7	2094.6	2015.4	1936.1	1766.3	1596.4	1573.8
22.5°	2116.9	2115.6	2114.8	2106.9	2091.8	2058.4	1970.1	1881.7	1714.9	1548.1	1548.9
25°	2048.4	2049.3	2053.1	2043.7	2021.0	1978.6	1876.7	1774.8	1627.6	1480.4	1505.9
27.5°	1975.2	1972.3	1968.6	1959.1	1944.0	1900.6	1772.3	1644.0	1527.7	1411.5	1453.8
30°	1927.6	1924.8	1921.0	1911.6	1896.5	1849.3	1705.9	1562.5	1464.3	1366.2	1415.3
32.5°	1873.3	1872.7	1871.9	1865.5	1853.4	1801.7	1631.2	1460.6	1389.6	1318.7	1370.0
35°	1790.8	1791.7	1791.7	1788.0	1780.4	1722.9	1515.3	1307.7	1277.5	1247.3	1307.7
37.5°	1697.4	1702.3	1707.6	1704.6	1693.2	1625.9	1390.4	1154.9	1164.7	1174.5	1247.7
40°	1629.5	1638.9	1650.2	1650.2	1638.9	1566.2	1309.6	1053.0	1086.9	1120.9	1200.2
42.5°	1561.5	1573.2	1587.6	1589.1	1577.7	1505.9	1252.2	998.6	1035.6	1072.6	1154.9
45°	1458.7	1471.9	1487.0	1488.9	1477.5	1412.4	1186.0	959.6	982.2	1004.8	1084.1
47.5°	1338.1	1357.0	1379.6	1381.5	1362.6	1298.7	1099.4	900.1	916.7	933.3	1014.5
50°	1263.4	1282.2	1304.9	1306.8	1287.9	1224.7	1028.4	832.2	854.8	877.5	962.4
52.5°	1175.1	1196.2	1221.9	1226.8	1210.9	1153.0	968.8	784.6	798.2	811.8	903.5
55°	1050.1	1072.8	1099.2	1106.7	1095.4	1048.2	893.5	738.8	727.5	716.1	809.5
57.5°	919.0	944.8	975.0	984.1	972.0	926.2	779.0	631.8	622.0	612.2	713.3
60°	836.0	863.3	893.5	901.1	886.0	841.6	709.5	577.4	558.6	539.7	645.4
62.5°	754.4	781.8	812.0	816.5	795.4	750.3	633.3	516.3	503.5	490.6	593.3
65°	632.2	659.5	689.7	691.6	665.2	619.9	518.0	416.1	423.6	431.2	523.7
67.5°	512.5	541.2	574.4	575.9	545.7	501.2	413.6	326.1	351.0	375.9	459.1
70°	437.8	464.2	494.4	494.4	464.2	422.7	347.2	271.7	305.7	339.7	416.1
72.5°	363.8	391.7	425.0	425.0	391.7	352.5	295.1	237.8	271.7	305.7	368.5
75°	269.8	294.4	324.6	320.8	283.1	246.3	212.3	178.3	212.3	246.3	294.4
77.5°	181.0	201.0	226.6	222.9	189.6	160.8	144.9	129.1	157.0	184.9	218.5
80°	127.4	144.4	167.0	163.2	133.0	109.4	105.7	101.9	120.8	139.6	164.2
82.5°	85.9	99.1	115.7	113.4	92.3	75.5	71.7	67.9	83.8	99.6	116.6
85°	34.0	39.6	47.2	47.2	39.6	34.0	34.0	34.0	41.5	49.1	56.6
87.5°	11.7	13.7	16.7	16.5	12.8	9.6	8.4	7.5	11.4	15.4	17.8
90°	24.4	23.3	23.3	22.1	18.6	14.0	8.1	3.5	8.1	12.8	21.0
92.5°	29.1	28.9	27.0	24.9	20.5	20.5	20.3	12.8	22.1	31.4	45.2
95°	26.8	26.8	31.4	39.6	58.2	59.4	39.6	36.1	51.2	72.2	90.8
97.5°	72.4	86.2	105.7	109.4	103.6	77.3	74.0	68.9	93.8	114.6	144.6
100°	133.9	151.3	165.3	137.4	108.3	107.1	100.1	97.8	124.6	144.4	173.5
102.5°	209.3	214.7	166.2	150.4	143.7	138.8	128.1	126.7	153.4	180.7	205.1
105°	227.0	203.7	204.9	204.9	200.2	190.9	171.1	170.0	200.2	231.7	261.9
107.5°	267.1	270.6	276.6	275.2	269.9	244.9	221.7	216.3	243.6	281.3	314.6
110°	320.2	323.6	326.0	323.6	315.5	284.1	256.1	248.0	272.4	312.0	348.1



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	371.4	373.9	379.1	372.1	358.3	322.3	290.6	278.7	303.2	343.7	380.7
115°	452.9	452.9	454.0	450.5	422.6	385.4	343.4	326.0	346.9	384.2	424.9
117.5°	533.0	534.4	529.7	520.4	488.0	444.7	397.7	369.7	386.3	425.6	467.5
120°	583.3	585.6	580.9	567.0	535.5	486.6	433.1	400.5	413.3	451.7	493.6
122.5°	635.4	635.0	629.4	613.5	576.5	525.8	473.1	433.1	438.4	474.1	515.0
125°	707.8	706.7	702.0	683.4	645.0	592.6	530.9	482.0	475.0	505.3	547.2
127.5°	776.8	774.2	767.0	744.4	705.0	654.5	586.8	531.3	515.7	534.8	573.3
130°	824.3	820.8	808.0	783.5	745.1	697.4	628.7	565.8	543.7	555.3	589.1
132.5°	869.9	859.9	848.9	822.6	787.0	737.4	667.8	602.1	571.6	576.7	603.1
135°	927.9	918.6	904.6	879.0	845.2	796.3	726.5	655.4	613.5	608.9	624.0
137.5°	978.9	969.1	953.2	931.1	897.1	853.6	786.5	711.6	658.7	643.1	648.9
140°	1010.5	998.9	984.9	962.8	932.5	887.1	821.9	749.7	690.4	668.3	664.8
142.5°	1036.6	1027.8	1012.9	992.6	966.1	920.6	857.3	786.1	723.0	694.3	686.2
145°	1075.7	1068.7	1052.4	1033.8	1011.7	966.3	908.1	837.1	774.2	736.9	719.5
147.5°	1108.8	1103.2	1090.4	1068.5	1049.9	1006.3	953.2	890.4	825.9	779.8	757.2
150°	1129.3	1124.6	1111.8	1090.9	1072.2	1031.5	980.3	922.0	860.3	811.4	782.3
152.5°	1148.8	1144.2	1129.5	1108.6	1092.7	1054.8	1008.2	952.8	890.1	841.3	811.2
155°	1174.7	1168.9	1154.9	1135.1	1121.1	1086.2	1043.1	994.2	940.7	889.4	855.7
157.5°	1195.2	1187.9	1174.9	1157.9	1143.0	1110.9	1073.4	1031.2	984.4	935.6	901.1
160°	1207.3	1199.1	1185.2	1170.0	1156.1	1125.8	1092.0	1053.6	1010.5	966.3	929.0
162.5°	1215.7	1208.4	1191.7	1178.4	1166.3	1138.8	1106.9	1072.2	1033.8	995.2	960.7
165°	1224.7	1216.6	1199.1	1188.6	1178.2	1154.9	1126.9	1099.0	1066.4	1035.0	1007.0
167.5°	1225.4	1218.7	1201.2	1191.0	1183.3	1163.3	1140.7	1119.3	1093.9	1069.2	1045.9
170°	1223.6	1217.8	1200.3	1191.0	1185.2	1168.9	1149.1	1130.4	1110.6	1089.7	1071.1
172.5°	1217.1	1211.2	1194.7	1187.3	1184.2	1169.8	1153.7	1139.8	1122.8	1107.4	1092.5
175°	1200.3	1195.6	1181.7	1177.0	1178.2	1168.9	1157.2	1149.1	1138.6	1129.3	1121.1
177.5°	1175.8	1173.0	1162.8	1162.8	1166.5	1160.9	1157.2	1153.5	1148.8	1146.0	1143.2
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8	2190.8
2.5°	2150.8	2138.8	2129.7	2122.2	2119.1	2116.1	2119.1	2122.2	2129.7	2138.8	2150.8
5°	2025.7	1961.6	1893.6	1838.0	1819.1	1800.2	1819.1	1838.0	1893.6	1961.6	2025.7
7.5°	1802.1	1724.7	1696.1	1673.0	1667.0	1661.0	1667.0	1673.0	1696.1	1724.7	1802.1
10°	1715.3	1653.0	1630.4	1613.4	1613.4	1613.4	1613.4	1613.4	1630.4	1653.0	1715.3
12.5°	1647.4	1609.3	1607.8	1610.4	1625.5	1640.6	1625.5	1610.4	1607.8	1609.3	1647.4
15°	1595.5	1601.1	1661.5	1711.5	1730.4	1749.3	1730.4	1711.5	1661.5	1601.1	1595.5
17.5°	1577.6	1610.0	1684.7	1744.6	1759.7	1774.8	1759.7	1744.6	1684.7	1610.0	1577.6
20°	1600.2	1641.7	1698.3	1744.6	1759.7	1774.8	1759.7	1744.6	1698.3	1641.7	1600.2
22.5°	1605.5	1656.1	1700.6	1737.8	1752.9	1768.0	1752.9	1737.8	1700.6	1656.1	1605.5
25°	1588.9	1649.3	1687.0	1717.2	1724.7	1732.3	1724.7	1717.2	1687.0	1649.3	1588.9
27.5°	1548.9	1615.3	1653.0	1682.7	1688.0	1693.2	1688.0	1682.7	1653.0	1615.3	1548.9
30°	1513.4	1581.3	1619.1	1650.2	1661.5	1672.9	1661.5	1650.2	1619.1	1581.3	1513.4
32.5°	1462.1	1531.5	1578.3	1614.0	1616.2	1618.5	1616.2	1614.0	1578.3	1531.5	1462.1
35°	1398.3	1470.0	1522.8	1561.5	1557.7	1554.0	1557.7	1561.5	1522.8	1470.0	1398.3
37.5°	1342.1	1412.3	1458.3	1494.0	1498.5	1503.0	1498.5	1494.0	1458.3	1412.3	1342.1
40°	1294.5	1366.2	1415.3	1454.0	1461.5	1469.1	1461.5	1454.0	1415.3	1366.2	1294.5
42.5°	1252.2	1325.5	1374.5	1413.2	1420.7	1428.3	1420.7	1413.2	1374.5	1325.5	1252.2
45°	1182.2	1257.7	1310.5	1351.1	1354.9	1358.7	1354.9	1351.1	1310.5	1257.7	1182.2
47.5°	1117.1	1193.0	1242.0	1279.8	1283.6	1287.3	1283.6	1279.8	1242.0	1193.0	1117.1
50°	1068.1	1145.4	1194.5	1232.2	1236.0	1239.8	1236.0	1232.2	1194.5	1145.4	1068.1
52.5°	1021.3	1101.6	1144.7	1177.9	1181.7	1185.4	1181.7	1177.9	1144.7	1101.6	1021.3
55°	937.9	1022.8	1064.3	1095.4	1095.4	1095.4	1095.4	1095.4	1064.3	1022.8	937.9
57.5°	851.4	938.6	974.8	1003.1	1007.7	1012.2	1007.7	1003.1	974.8	938.6	851.4
60°	792.6	881.2	911.4	936.0	943.5	951.1	943.5	936.0	911.4	881.2	792.6
62.5°	734.4	820.1	850.3	874.1	878.6	883.1	878.6	874.1	850.3	820.1	734.4
65°	644.4	719.9	750.1	773.7	777.5	781.2	777.5	773.7	750.1	719.9	644.4
67.5°	561.8	623.7	644.8	661.4	664.4	667.4	664.4	661.4	644.8	623.7	561.8
70°	506.7	559.5	574.6	585.9	585.9	585.9	585.9	585.9	574.6	559.5	506.7
72.5°	441.0	484.8	499.9	512.0	515.0	518.0	515.0	512.0	499.9	484.8	441.0
75°	347.2	379.3	390.6	400.1	403.8	407.6	403.8	400.1	390.6	379.3	347.2
77.5°	254.0	275.1	281.9	288.0	291.7	295.5	291.7	288.0	281.9	275.1	254.0
80°	190.6	205.7	209.5	213.2	217.0	220.8	217.0	213.2	209.5	205.7	190.6
82.5°	134.0	144.5	148.3	151.3	152.1	152.8	152.1	151.3	148.3	144.5	134.0
85°	64.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	64.2
87.5°	18.9	20.6	22.2	23.1	24.1	23.6	24.1	23.1	22.2	20.6	18.9
90°	26.8	34.9	43.1	47.7	52.4	50.1	52.4	47.7	43.1	34.9	26.8
92.5°	53.8	67.5	77.5	85.9	89.6	89.2	89.6	85.9	77.5	67.5	53.8
95°	108.3	124.6	140.9	152.5	159.5	157.2	159.5	152.5	140.9	124.6	108.3
97.5°	166.9	188.8	207.0	217.9	224.9	229.6	224.9	217.9	207.0	188.8	166.9
100°	206.1	227.0	248.0	260.8	272.4	277.1	272.4	260.8	248.0	227.0	206.1
102.5°	237.7	265.2	288.0	301.8	311.5	316.2	311.5	301.8	288.0	265.2	237.7
105°	289.9	319.0	343.4	360.9	371.4	374.9	371.4	360.9	343.4	319.0	289.9
107.5°	342.0	372.1	394.7	414.0	426.8	434.2	426.8	414.0	394.7	372.1	342.0
110°	383.0	407.5	431.9	449.4	462.2	466.8	462.2	449.4	431.9	407.5	383.0



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	417.5	444.7	469.2	486.6	501.3	507.8	501.3	486.6	469.2	444.7	417.5
115°	465.7	501.8	523.9	540.2	550.7	556.5	550.7	540.2	523.9	501.8	465.7
117.5°	505.7	543.4	567.7	580.2	585.1	589.3	585.1	580.2	567.7	543.4	505.7
120°	530.9	565.8	593.7	610.0	615.9	618.2	615.9	610.0	593.7	565.8	530.9
122.5°	554.2	587.2	614.2	634.3	643.8	646.1	643.8	634.3	614.2	587.2	554.2
125°	586.8	618.2	646.1	665.9	676.4	682.2	676.4	665.9	646.1	618.2	586.8
127.5°	615.2	649.2	674.8	692.7	702.9	707.6	702.9	692.7	674.8	649.2	615.2
130°	631.0	665.9	691.5	711.3	720.6	725.3	720.6	711.3	691.5	665.9	631.0
132.5°	643.1	679.9	706.4	724.4	734.6	739.3	734.6	724.4	706.4	679.9	643.1
135°	657.8	696.2	724.1	741.6	750.9	755.6	750.9	741.6	724.1	696.2	657.8
137.5°	670.6	705.5	734.6	753.0	761.4	764.4	761.4	753.0	734.6	705.5	670.6
140°	679.9	710.2	739.3	756.7	766.0	767.2	766.0	756.7	739.3	710.2	679.9
142.5°	692.0	715.7	741.1	758.6	767.9	770.0	767.9	758.6	741.1	715.7	692.0
145°	713.7	727.6	745.1	761.4	769.5	771.9	769.5	761.4	745.1	727.6	713.7
147.5°	740.9	745.3	754.4	765.1	773.0	774.7	773.0	765.1	754.4	745.3	740.9
150°	761.4	760.2	763.7	770.7	777.7	776.5	777.7	770.7	763.7	760.2	761.4
152.5°	784.7	777.9	777.7	780.9	784.2	784.0	784.2	780.9	777.7	777.9	784.7
155°	824.3	811.4	804.5	802.1	802.1	801.0	802.1	802.1	804.5	811.4	824.3
157.5°	867.8	849.9	839.4	833.8	832.2	829.6	832.2	833.8	839.4	849.9	867.8
160°	897.6	877.8	867.3	858.0	854.5	851.0	854.5	858.0	867.3	877.8	897.6
162.5°	925.5	906.7	895.3	886.9	883.4	878.0	883.4	886.9	895.3	906.7	925.5
165°	970.9	951.2	938.3	931.4	926.7	922.0	926.7	931.4	938.3	951.2	970.9
167.5°	1016.3	994.7	986.3	978.4	974.0	965.6	974.0	978.4	986.3	994.7	1016.3
170°	1044.3	1024.5	1019.8	1012.9	1004.7	995.4	1004.7	1012.9	1019.8	1024.5	1044.3
172.5°	1068.5	1055.2	1050.6	1043.6	1041.0	1033.6	1041.0	1043.6	1050.6	1055.2	1068.5
175°	1103.7	1093.2	1093.2	1092.0	1088.5	1081.5	1088.5	1092.0	1093.2	1093.2	1103.7
177.5°	1133.0	1127.4	1131.1	1131.1	1130.2	1123.7	1130.2	1131.1	1131.1	1127.4	1133.0
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2190.8	2190.8	2190.8	2190.8
2.5°	2165.9	2177.3	2177.3	2177.3
5°	2086.1	2134.2	2145.6	2156.9
7.5°	1928.2	2035.4	2085.9	2136.5
10°	1817.2	1919.1	2021.0	2122.9
12.5°	1722.1	1814.2	1958.4	2102.5
15°	1644.5	1721.9	1884.2	2046.5
17.5°	1587.4	1637.2	1807.0	1976.9
20°	1573.8	1596.4	1766.3	1936.1
22.5°	1548.9	1548.1	1714.9	1881.7
25°	1505.9	1480.4	1627.6	1774.8
27.5°	1453.8	1411.5	1527.7	1644.0
30°	1415.3	1366.2	1464.3	1562.5
32.5°	1370.0	1318.7	1389.6	1460.6
35°	1307.7	1247.3	1277.5	1307.7
37.5°	1247.7	1174.5	1164.7	1154.9
40°	1200.2	1120.9	1086.9	1053.0
42.5°	1154.9	1072.6	1035.6	998.6
45°	1084.1	1004.8	982.2	959.6
47.5°	1014.5	933.3	916.7	900.1
50°	962.4	877.5	854.8	832.2
52.5°	903.5	811.8	798.2	784.6
55°	809.5	716.1	727.5	738.8
57.5°	713.3	612.2	622.0	631.8
60°	645.4	539.7	558.6	577.4
62.5°	593.3	490.6	503.5	516.3
65°	523.7	431.2	423.6	416.1
67.5°	459.1	375.9	351.0	326.1
70°	416.1	339.7	305.7	271.7
72.5°	368.5	305.7	271.7	237.8
75°	294.4	246.3	212.3	178.3
77.5°	218.5	184.9	157.0	129.1
80°	164.2	139.6	120.8	101.9
82.5°	116.6	99.6	83.8	67.9
85°	56.6	49.1	41.5	34.0
87.5°	17.8	15.4	11.4	7.5
90°	21.0	12.8	8.1	3.5
92.5°	45.2	31.4	22.1	12.8
95°	90.8	72.2	51.2	36.1
97.5°	144.6	114.6	93.8	68.9
100°	173.5	144.4	124.6	97.8
102.5°	205.1	180.7	153.4	126.7
105°	261.9	231.7	200.2	170.0
107.5°	314.6	281.3	243.6	216.3
110°	348.1	312.0	272.4	248.0



TEST NUMBER: P1435807

CATALOG NUMBER: SQ2W-FA-K-075U-125D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	380.7	343.7	303.2	278.7
115°	424.9	384.2	346.9	326.0
117.5°	467.5	425.6	386.3	369.7
120°	493.6	451.7	413.3	400.5
122.5°	515.0	474.1	438.4	433.1
125°	547.2	505.3	475.0	482.0
127.5°	573.3	534.8	515.7	531.3
130°	589.1	555.3	543.7	565.8
132.5°	603.1	576.7	571.6	602.1
135°	624.0	608.9	613.5	655.4
137.5°	648.9	643.1	658.7	711.6
140°	664.8	668.3	690.4	749.7
142.5°	686.2	694.3	723.0	786.1
145°	719.5	736.9	774.2	837.1
147.5°	757.2	779.8	825.9	890.4
150°	782.3	811.4	860.3	922.0
152.5°	811.2	841.3	890.1	952.8
155°	855.7	889.4	940.7	994.2
157.5°	901.1	935.6	984.4	1031.2
160°	929.0	966.3	1010.5	1053.6
162.5°	960.7	995.2	1033.8	1072.2
165°	1007.0	1035.0	1066.4	1099.0
167.5°	1045.9	1069.2	1093.9	1119.3
170°	1071.1	1089.7	1110.6	1130.4
172.5°	1092.5	1107.4	1122.8	1139.8
175°	1121.1	1129.3	1138.6	1149.1
177.5°	1143.2	1146.0	1148.8	1153.5
180°	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1435807  
 CATALOG NUMBER: SQ2W-FA-K-075U-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	19.79	20.77	20.64	21.64	22.73	20.99	21.97	21.84	22.84	23.93
	3H	20.89	21.76	21.75	22.64	23.76	22.24	23.12	23.10	24.00	25.12
	4H	21.25	22.07	22.12	22.96	24.09	22.64	23.46	23.52	24.35	25.48
	6H	21.41	22.18	22.30	23.07	24.21	22.80	23.57	23.69	24.46	25.60
	8H	21.45	22.18	22.35	23.09	24.23	22.83	23.56	23.73	24.47	25.61
	12H	21.45	22.14	22.36	23.05	24.22	22.82	23.51	23.72	24.42	25.58
4H	2H	20.67	21.50	21.56	22.39	23.52	21.59	22.41	22.47	23.30	24.43
	3H	22.07	22.76	22.97	23.68	24.82	23.06	23.75	23.96	24.67	25.81
	4H	22.53	23.16	23.44	24.07	25.24	23.54	24.17	24.45	25.08	26.26
	6H	22.77	23.31	23.69	24.25	25.42	23.77	24.31	24.69	25.25	26.42
	8H	22.83	23.33	23.75	24.27	25.45	23.82	24.33	24.75	25.26	26.45
	12H	22.84	23.29	23.78	24.24	25.43	23.82	24.27	24.76	25.22	26.41
8H	4H	22.93	23.43	23.85	24.36	25.55	23.75	24.25	24.67	25.19	26.37
	6H	23.28	23.70	24.23	24.67	25.86	24.07	24.48	25.02	25.46	26.64
	8H	23.40	23.77	24.36	24.73	25.94	24.16	24.53	25.12	25.50	26.70
	12H	23.44	23.77	24.40	24.73	25.98	24.18	24.51	25.15	25.47	26.72
12H	4H	22.93	23.39	23.88	24.34	25.53	23.72	24.18	24.66	25.13	26.32
	6H	23.35	23.72	24.31	24.69	25.89	24.09	24.46	25.04	25.42	26.62
	8H	23.50	23.83	24.47	24.79	26.04	24.21	24.53	25.17	25.49	26.74