

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: P1428310

Luminaire Tested: SQ2W-PR1-K-150U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428310
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-150U-075D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE RIPPLE LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

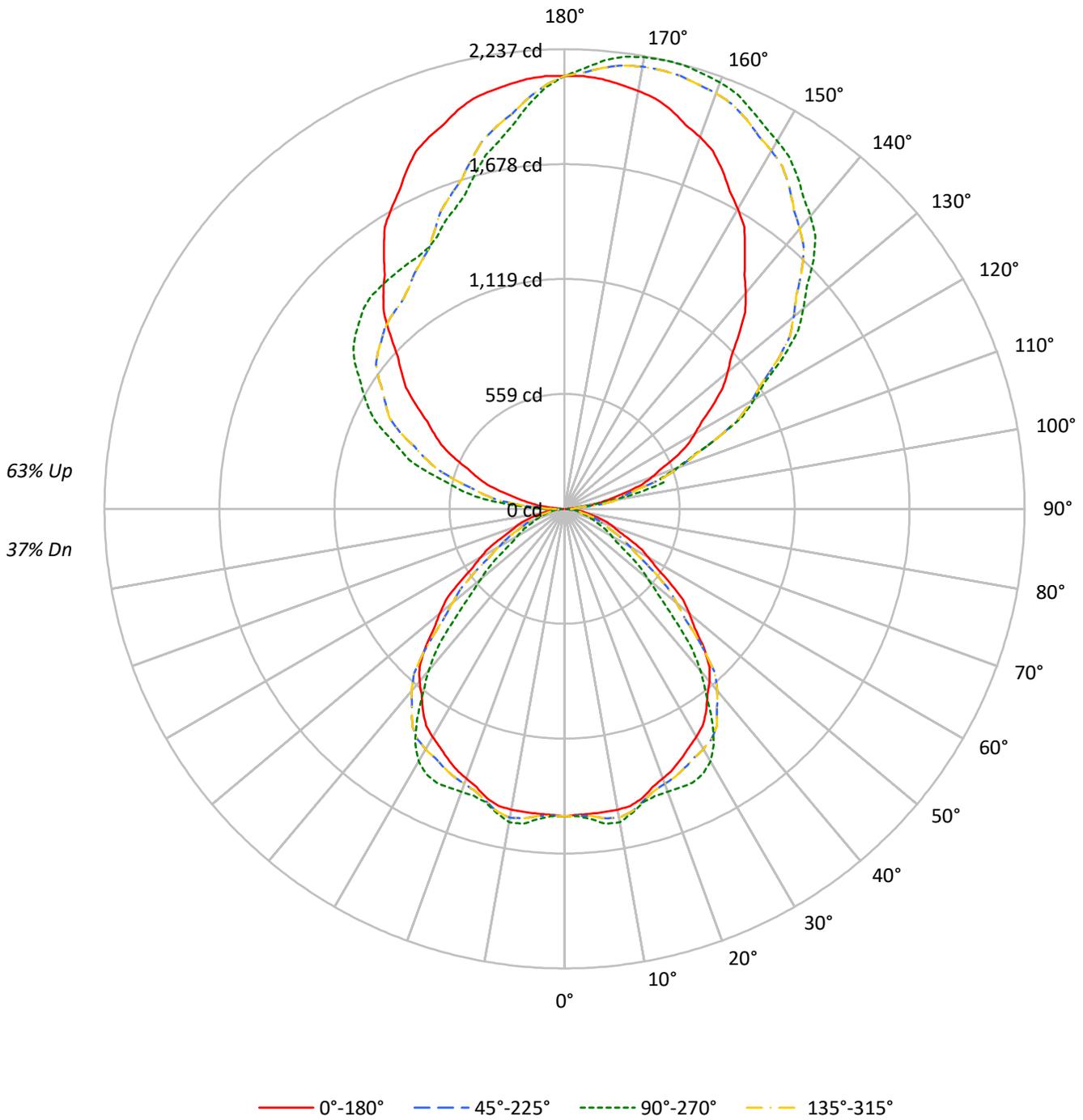
Lumens per Lamp: N/A
Luminaire Lumens: 9760.3 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 81.8
Input Voltage (V): 120
Input Current (A_{in}): 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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39	38	34	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	33	34	30	28	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	30	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	26	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	27	23	42	32	26	21	27	22	18	22	18	16	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24168	24168	24168	24168
5°	24137	24583	24137	24583
10°	24392	25392	24392	25392
15°	24384	24715	24384	24715
20°	23989	25170	23989	25170
25°	23922	26205	23922	26205
30°	23897	26457	23897	26457
35°	23670	24632	23670	24632
40°	23123	21677	23123	21677
45°	21881	17141	21881	17141
50°	19891	13300	19891	13300
55°	17480	10350	17480	10350
60°	15128	8525	15128	8525
65°	13058	7461	13058	7461
70°	11740	6628	11740	6628
75°	10755	6095	10755	6095
80°	9363	5960	9363	5960
85°	6780	2834	6780	2834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 23491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.5
10°-20°	418.5	4.3
20°-30°	646.9	6.6
30°-40°	778.0	8.0
40°-50°	698.6	7.2
50°-60°	468.1	4.8
60°-70°	272.3	2.8
70°-80°	139.9	1.4
80°-90°	43.2	0.4
90°-100°	167.6	1.7
100°-110°	488.9	5.0
110°-120°	797.8	8.2
120°-130°	1012.4	10.4
130°-140°	1083.3	11.1
140°-150°	1011.5	10.4
150°-160°	832.4	8.5
160°-170°	558.2	5.7
170°-180°	198.2	2.0
0°-30°	1210.0	12.4
0°-40°	1987.9	20.4
0°-60°	3154.6	32.3
0°-90°	3610.0	37.0
90°-120°	1454.3	14.9
90°-150°	4561.5	46.7
90°-180°	6150.0	63.0
0°-180°	9760.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1497	1497	1497	1497	1497	
5°	1489	1517	1489	1517	1489	142
15°	1459	1479	1459	1479	1459	410
25°	1343	1471	1343	1471	1343	619
35°	1201	1250	1201	1250	1201	749
45°	958	751	958	751	958	733
55°	621	368	621	368	621	558
65°	342	195	342	195	342	346
75°	172	98	172	98	172	183
85°	37	15	37	15	37	46
90°	6	47	6	92	6	6
95°	66	49	66	287	66	80
105°	311	498	311	685	311	330
115°	596	826	596	1017	596	587
125°	881	1308	881	1247	881	788
135°	1198	1713	1198	1381	1198	926
145°	1530	1974	1530	1411	1530	957
155°	1817	2145	1817	1464	1817	835
165°	2008	2236	2008	1685	2008	565
175°	2100	2189	2100	1977	2100	199
180°	2106	2106	2106	2106	2106	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1490.8	1499.0	1507.1	1503.4	1495.8	1492.3	1492.9	1493.7	1495.3	1496.9	1495.3
5°	1489.3	1500.8	1512.3	1509.6	1502.2	1499.1	1500.5	1503.2	1510.0	1516.8	1510.0
7.5°	1489.0	1505.4	1521.8	1523.1	1519.3	1519.3	1523.3	1528.5	1537.4	1546.4	1537.4
10°	1487.8	1507.4	1527.1	1530.0	1527.3	1526.3	1526.9	1529.8	1539.3	1548.8	1539.3
12.5°	1480.4	1503.4	1526.3	1523.9	1513.0	1507.1	1506.2	1506.8	1511.9	1517.1	1511.9
15°	1458.8	1485.9	1513.0	1502.0	1478.3	1467.4	1469.5	1471.8	1475.2	1478.6	1475.2
17.5°	1420.6	1449.0	1477.3	1467.4	1444.8	1437.1	1444.4	1451.6	1458.2	1464.9	1458.2
20°	1396.2	1424.0	1451.8	1445.0	1426.7	1422.3	1431.8	1441.8	1453.3	1464.9	1453.3
22.5°	1374.2	1402.0	1429.8	1425.5	1410.5	1409.6	1422.9	1436.8	1452.7	1468.5	1452.7
25°	1342.8	1367.2	1391.6	1392.1	1384.7	1392.1	1414.5	1435.7	1453.3	1471.0	1453.3
27.5°	1309.8	1324.2	1338.6	1348.1	1356.0	1375.0	1405.3	1431.0	1443.4	1455.7	1443.4
30°	1281.8	1291.3	1300.8	1318.4	1338.7	1362.1	1388.6	1409.6	1414.4	1419.1	1414.4
32.5°	1251.2	1256.9	1262.6	1287.5	1318.7	1341.2	1355.2	1364.2	1358.1	1352.0	1358.1
35°	1200.9	1205.6	1210.4	1242.1	1282.8	1297.7	1286.9	1275.5	1262.6	1249.7	1262.6
37.5°	1141.1	1150.8	1160.6	1186.4	1217.6	1217.4	1185.6	1158.1	1143.3	1128.6	1143.3
40°	1097.1	1113.4	1129.7	1147.0	1164.6	1149.7	1102.2	1062.4	1045.4	1028.5	1045.4
42.5°	1043.4	1069.5	1095.5	1099.4	1095.8	1063.8	1003.3	952.8	932.0	911.3	932.0
45°	958.3	993.5	1028.8	1008.6	970.0	917.8	852.0	796.9	773.8	750.7	773.8
47.5°	857.9	894.1	930.3	892.3	829.5	768.7	710.0	660.5	639.0	617.4	639.0
50°	791.9	821.1	850.3	807.2	740.1	679.0	624.1	577.0	553.2	529.5	553.2
52.5°	724.8	745.8	766.9	724.2	660.3	600.9	546.0	499.4	477.8	456.2	477.8
55°	621.0	631.9	642.7	603.2	547.0	492.7	440.5	397.6	382.7	367.7	382.7
57.5°	525.8	532.7	539.7	502.2	450.0	401.7	357.4	321.4	310.4	299.4	310.4
60°	468.5	473.2	477.9	440.0	387.8	344.3	309.8	281.6	272.8	264.0	272.8
62.5°	416.0	419.6	423.3	386.7	336.6	297.8	270.3	248.0	241.3	234.7	241.3
65°	341.8	345.2	348.6	317.4	274.7	242.8	221.8	204.8	200.1	195.3	200.1
67.5°	282.9	284.7	286.4	260.7	225.9	200.2	183.6	170.1	165.6	161.1	165.6
70°	248.7	249.4	250.1	227.4	196.8	174.1	159.2	147.2	143.8	140.4	143.8
72.5°	218.2	217.3	216.3	196.0	169.3	149.8	137.6	127.9	125.6	123.3	125.6
75°	172.4	170.4	168.4	151.6	129.9	115.0	106.8	100.4	99.0	97.7	99.0
77.5°	128.8	126.6	124.4	110.5	92.6	82.3	79.6	77.5	77.5	77.5	77.5
80°	100.7	98.0	95.3	84.4	70.9	64.1	64.1	64.1	64.1	64.1	64.1
82.5°	75.1	71.3	67.5	60.8	53.2	49.4	49.4	49.3	48.8	48.2	48.8
85°	36.6	33.2	29.8	29.0	29.0	27.0	22.9	19.3	17.3	15.3	17.3
87.5°	11.0	12.7	14.9	14.5	13.1	12.2	12.2	12.6	13.0	13.0	13.0
90°	6.4	14.9	25.5	34.0	40.4	42.6	42.6	44.7	46.8	46.8	46.8
92.5°	23.4	37.0	37.4	37.4	45.5	49.4	52.8	53.2	55.3	55.3	55.3
95°	66.0	72.3	108.5	106.4	72.3	57.4	48.9	48.9	48.9	48.9	48.9
97.5°	126.0	135.3	141.3	189.4	200.0	193.2	157.4	132.3	118.3	111.9	118.3
100°	178.7	183.0	195.7	197.9	251.1	302.1	276.6	244.7	234.0	227.7	234.0
102.5°	231.5	234.0	253.6	262.6	274.9	303.8	392.3	382.6	375.3	374.0	375.3
105°	310.6	312.8	348.9	366.0	374.5	374.5	372.3	414.9	483.0	497.9	483.0
107.5°	395.3	405.1	447.7	493.2	503.0	505.5	494.5	488.1	485.5	487.2	485.5
110°	453.2	468.1	519.2	576.6	591.5	595.8	591.5	585.1	580.9	580.9	580.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	509.4	531.1	588.9	654.9	680.0	692.8	683.4	678.7	674.5	677.9	674.5
115°	595.8	627.7	704.3	772.3	823.4	829.8	827.7	827.7	825.5	825.5	825.5
117.5°	675.8	726.8	812.8	891.9	951.1	968.1	976.6	974.1	971.5	975.8	971.5
120°	731.9	791.5	889.4	978.7	1036.2	1061.7	1070.2	1066.0	1070.2	1066.0	1070.2
122.5°	791.5	864.7	960.9	1053.6	1121.3	1150.2	1160.4	1161.3	1162.1	1159.6	1162.1
125°	880.9	970.2	1083.0	1178.7	1248.9	1283.0	1291.5	1293.6	1297.9	1308.5	1297.9
127.5°	971.1	1072.4	1196.2	1288.5	1360.4	1401.7	1414.9	1419.6	1428.5	1433.2	1428.5
130°	1034.1	1148.9	1274.5	1361.7	1431.9	1476.6	1500.0	1506.4	1517.0	1514.9	1517.0
132.5°	1100.4	1220.4	1347.7	1438.3	1503.4	1551.5	1571.5	1589.8	1593.6	1596.6	1593.6
135°	1197.9	1327.7	1455.3	1544.7	1606.4	1653.2	1678.7	1695.8	1706.4	1712.8	1706.4
137.5°	1300.4	1437.5	1560.0	1639.6	1701.7	1742.1	1771.1	1789.0	1800.0	1805.1	1800.0
140°	1370.2	1502.1	1621.3	1704.3	1759.6	1800.0	1825.5	1846.8	1859.6	1859.6	1859.6
142.5°	1436.6	1566.8	1682.6	1765.5	1814.1	1851.1	1878.3	1894.5	1909.0	1909.0	1909.0
145°	1529.8	1659.6	1766.0	1849.0	1889.4	1923.4	1953.2	1966.0	1974.5	1974.5	1974.5
147.5°	1627.2	1742.1	1839.2	1918.7	1952.8	1992.8	2016.2	2026.4	2037.0	2032.4	2037.0
150°	1685.1	1791.5	1885.1	1959.6	1993.6	2031.9	2055.3	2063.8	2074.5	2068.1	2074.5
152.5°	1741.3	1842.6	1927.7	1997.0	2026.0	2064.3	2091.1	2099.6	2106.8	2102.1	2106.8
155°	1817.0	1906.4	1985.1	2049.0	2074.5	2110.7	2136.2	2146.8	2155.3	2144.7	2155.3
157.5°	1884.7	1961.7	2030.2	2089.0	2116.2	2147.3	2171.1	2184.3	2192.8	2188.1	2192.8
160°	1925.6	1995.8	2057.5	2112.8	2138.3	2166.0	2191.5	2206.4	2214.9	2208.5	2214.9
162.5°	1959.6	2023.0	2081.3	2131.5	2153.6	2177.9	2208.5	2221.7	2230.2	2222.1	2230.2
165°	2008.5	2059.6	2110.7	2153.2	2172.4	2191.5	2223.4	2238.3	2244.7	2236.2	2244.7
167.5°	2045.6	2084.7	2126.0	2162.6	2176.6	2195.3	2227.3	2239.6	2247.7	2237.0	2247.7
170°	2066.0	2100.0	2136.2	2166.0	2176.6	2193.6	2225.6	2236.2	2242.6	2231.9	2242.6
172.5°	2083.0	2108.5	2137.9	2164.3	2169.8	2183.4	2213.6	2224.3	2229.0	2220.0	2229.0
175°	2100.0	2114.9	2136.2	2153.2	2151.1	2159.6	2185.1	2193.6	2202.1	2189.4	2202.1
177.5°	2108.1	2114.9	2121.7	2131.9	2125.1	2125.1	2143.9	2149.0	2150.7	2143.9	2150.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1493.7	1492.9	1492.3	1495.8	1503.4	1507.1	1499.0	1490.8	1499.0	1507.1	1503.4
5°	1503.2	1500.5	1499.1	1502.2	1509.6	1512.3	1500.8	1489.3	1500.8	1512.3	1509.6
7.5°	1528.5	1523.3	1519.3	1519.3	1523.1	1521.8	1505.4	1489.0	1505.4	1521.8	1523.1
10°	1529.8	1526.9	1526.3	1527.3	1530.0	1527.1	1507.4	1487.8	1507.4	1527.1	1530.0
12.5°	1506.8	1506.2	1507.1	1513.0	1523.9	1526.3	1503.4	1480.4	1503.4	1526.3	1523.9
15°	1471.8	1469.5	1467.4	1478.3	1502.0	1513.0	1485.9	1458.8	1485.9	1513.0	1502.0
17.5°	1451.6	1444.4	1437.1	1444.8	1467.4	1477.3	1449.0	1420.6	1449.0	1477.3	1467.4
20°	1441.8	1431.8	1422.3	1426.7	1445.0	1451.8	1424.0	1396.2	1424.0	1451.8	1445.0
22.5°	1436.8	1422.9	1409.6	1410.5	1425.5	1429.8	1402.0	1374.2	1402.0	1429.8	1425.5
25°	1435.7	1414.5	1392.1	1384.7	1392.1	1391.6	1367.2	1342.8	1367.2	1391.6	1392.1
27.5°	1431.0	1405.3	1375.0	1356.0	1348.1	1338.6	1324.2	1309.8	1324.2	1338.6	1348.1
30°	1409.6	1388.6	1362.1	1338.7	1318.4	1300.8	1291.3	1281.8	1291.3	1300.8	1318.4
32.5°	1364.2	1355.2	1341.2	1318.7	1287.5	1262.6	1256.9	1251.2	1256.9	1262.6	1287.5
35°	1275.5	1286.9	1297.7	1282.8	1242.1	1210.4	1205.6	1200.9	1205.6	1210.4	1242.1
37.5°	1158.1	1185.6	1217.4	1217.6	1186.4	1160.6	1150.8	1141.1	1150.8	1160.6	1186.4
40°	1062.4	1102.2	1149.7	1164.6	1147.0	1129.7	1113.4	1097.1	1113.4	1129.7	1147.0
42.5°	952.8	1003.3	1063.8	1095.8	1099.4	1095.5	1069.5	1043.4	1069.5	1095.5	1099.4
45°	796.9	852.0	917.8	970.0	1008.6	1028.8	993.5	958.3	993.5	1028.8	1008.6
47.5°	660.5	710.0	768.7	829.5	892.3	930.3	894.1	857.9	894.1	930.3	892.3
50°	577.0	624.1	679.0	740.1	807.2	850.3	821.1	791.9	821.1	850.3	807.2
52.5°	499.4	546.0	600.9	660.3	724.2	766.9	745.8	724.8	745.8	766.9	724.2
55°	397.6	440.5	492.7	547.0	603.2	642.7	631.9	621.0	631.9	642.7	603.2
57.5°	321.4	357.4	401.7	450.0	502.2	539.7	532.7	525.8	532.7	539.7	502.2
60°	281.6	309.8	344.3	387.8	440.0	477.9	473.2	468.5	473.2	477.9	440.0
62.5°	248.0	270.3	297.8	336.6	386.7	423.3	419.6	416.0	419.6	423.3	386.7
65°	204.8	221.8	242.8	274.7	317.4	348.6	345.2	341.8	345.2	348.6	317.4
67.5°	170.1	183.6	200.2	225.9	260.7	286.4	284.7	282.9	284.7	286.4	260.7
70°	147.2	159.2	174.1	196.8	227.4	250.1	249.4	248.7	249.4	250.1	227.4
72.5°	127.9	137.6	149.8	169.3	196.0	216.3	217.3	218.2	217.3	216.3	196.0
75°	100.4	106.8	115.0	129.9	151.6	168.4	170.4	172.4	170.4	168.4	151.6
77.5°	77.5	79.6	82.3	92.6	110.5	124.4	126.6	128.8	126.6	124.4	110.5
80°	64.1	64.1	64.1	70.9	84.4	95.3	98.0	100.7	98.0	95.3	84.4
82.5°	49.3	49.4	49.4	53.2	60.8	67.5	71.3	75.1	71.3	67.5	60.8
85°	19.3	22.9	27.0	29.0	29.0	29.8	33.2	36.6	33.2	29.8	29.0
87.5°	12.6	12.2	12.2	13.1	14.5	14.9	12.7	11.0	12.7	14.4	15.4
90°	44.7	42.6	42.6	40.4	34.0	25.5	14.9	6.4	14.9	23.4	38.3
92.5°	53.2	52.8	49.4	45.5	37.4	37.4	37.0	23.4	40.4	57.4	82.6
95°	48.9	48.9	57.4	72.3	106.4	108.5	72.3	66.0	93.6	131.9	166.0
97.5°	132.3	157.4	193.2	200.0	189.4	141.3	135.3	126.0	171.5	209.4	264.3
100°	244.7	276.6	302.1	251.1	197.9	195.7	183.0	178.7	227.7	263.8	317.0
102.5°	382.6	392.3	303.8	274.9	262.6	253.6	234.0	231.5	280.4	330.2	374.9
105°	414.9	372.3	374.5	374.5	366.0	348.9	312.8	310.6	366.0	423.4	478.7
107.5°	488.1	494.5	505.5	503.0	493.2	447.7	405.1	395.3	445.1	514.0	574.9
110°	585.1	591.5	595.8	591.5	576.6	519.2	468.1	453.2	497.9	570.2	636.2



TEST NUMBER: P1428310

CATALOG NUMBER: SQ2W-PR1-K-150U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	678.7	683.4	692.8	680.0	654.9	588.9	531.1	509.4	554.0	628.1	695.8
115°	827.7	827.7	829.8	823.4	772.3	704.3	627.7	595.8	634.0	702.1	776.6
117.5°	974.1	976.6	968.1	951.1	891.9	812.8	726.8	675.8	706.0	777.9	854.5
120°	1066.0	1070.2	1061.7	1036.2	978.7	889.4	791.5	731.9	755.3	825.5	902.1
122.5°	1161.3	1160.4	1150.2	1121.3	1053.6	960.9	864.7	791.5	801.3	866.4	941.3
125°	1293.6	1291.5	1283.0	1248.9	1178.7	1083.0	970.2	880.9	868.1	923.4	1000.0
127.5°	1419.6	1414.9	1401.7	1360.4	1288.5	1196.2	1072.4	971.1	942.6	977.5	1047.7
130°	1506.4	1500.0	1476.6	1431.9	1361.7	1274.5	1148.9	1034.1	993.6	1014.9	1076.6
132.5°	1589.8	1571.5	1551.5	1503.4	1438.3	1347.7	1220.4	1100.4	1044.7	1054.1	1102.1
135°	1695.8	1678.7	1653.2	1606.4	1544.7	1455.3	1327.7	1197.9	1121.3	1112.8	1140.4
137.5°	1789.0	1771.1	1742.1	1701.7	1639.6	1560.0	1437.5	1300.4	1203.8	1175.3	1186.0
140°	1846.8	1825.5	1800.0	1759.6	1704.3	1621.3	1502.1	1370.2	1261.7	1221.3	1214.9
142.5°	1894.5	1878.3	1851.1	1814.1	1765.5	1682.6	1566.8	1436.6	1321.3	1268.9	1254.1
145°	1966.0	1953.2	1923.4	1889.4	1849.0	1766.0	1659.6	1529.8	1414.9	1346.8	1314.9
147.5°	2026.4	2016.2	1992.8	1952.8	1918.7	1839.2	1742.1	1627.2	1509.4	1425.1	1383.8
150°	2063.8	2055.3	2031.9	1993.6	1959.6	1885.1	1791.5	1685.1	1572.4	1483.0	1429.8
152.5°	2099.6	2091.1	2064.3	2026.0	1997.0	1927.7	1842.6	1741.3	1626.8	1537.5	1482.6
155°	2146.8	2136.2	2110.7	2074.5	2049.0	1985.1	1906.4	1817.0	1719.2	1625.5	1563.8
157.5°	2184.3	2171.1	2147.3	2116.2	2089.0	2030.2	1961.7	1884.7	1799.2	1709.8	1646.8
160°	2206.4	2191.5	2166.0	2138.3	2112.8	2057.5	1995.8	1925.6	1846.8	1766.0	1697.9
162.5°	2221.7	2208.5	2177.9	2153.6	2131.5	2081.3	2023.0	1959.6	1889.4	1818.7	1755.8
165°	2238.3	2223.4	2191.5	2172.4	2153.2	2110.7	2059.6	2008.5	1949.0	1891.5	1840.4
167.5°	2239.6	2227.3	2195.3	2176.6	2162.6	2126.0	2084.7	2045.6	1999.2	1954.1	1911.5
170°	2236.2	2225.6	2193.6	2176.6	2166.0	2136.2	2100.0	2066.0	2029.8	1991.5	1957.5
172.5°	2224.3	2213.6	2183.4	2169.8	2164.3	2137.9	2108.5	2083.0	2051.9	2023.8	1996.6
175°	2193.6	2185.1	2159.6	2151.1	2153.2	2136.2	2114.9	2100.0	2080.9	2063.8	2049.0
177.5°	2149.0	2143.9	2125.1	2125.1	2131.9	2121.7	2114.9	2108.1	2099.6	2094.5	2089.4
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1495.8	1492.3	1492.9	1493.7	1495.3	1496.9	1495.3	1493.7	1492.9	1492.3	1495.8
5°	1502.2	1499.1	1500.5	1503.2	1510.0	1516.8	1510.0	1503.2	1500.5	1499.1	1502.2
7.5°	1519.3	1519.3	1523.3	1528.5	1537.4	1546.4	1537.4	1528.5	1523.3	1519.3	1519.3
10°	1527.3	1526.3	1526.9	1529.8	1539.3	1548.8	1539.3	1529.8	1526.9	1526.3	1527.3
12.5°	1513.0	1507.1	1506.2	1506.8	1511.9	1517.1	1511.9	1506.8	1506.2	1507.1	1513.0
15°	1478.3	1467.4	1469.5	1471.8	1475.2	1478.6	1475.2	1471.8	1469.5	1467.4	1478.3
17.5°	1444.8	1437.1	1444.4	1451.6	1458.2	1464.9	1458.2	1451.6	1444.4	1437.1	1444.8
20°	1426.7	1422.3	1431.8	1441.8	1453.3	1464.9	1453.3	1441.8	1431.8	1422.3	1426.7
22.5°	1410.5	1409.6	1422.9	1436.8	1452.7	1468.5	1452.7	1436.8	1422.9	1409.6	1410.5
25°	1384.7	1392.1	1414.5	1435.7	1453.3	1471.0	1453.3	1435.7	1414.5	1392.1	1384.7
27.5°	1356.0	1375.0	1405.3	1431.0	1443.4	1455.7	1443.4	1431.0	1405.3	1375.0	1356.0
30°	1338.7	1362.1	1388.6	1409.6	1414.4	1419.1	1414.4	1409.6	1388.6	1362.1	1338.7
32.5°	1318.7	1341.2	1355.2	1364.2	1358.1	1352.0	1358.1	1364.2	1355.2	1341.2	1318.7
35°	1282.8	1297.7	1286.9	1275.5	1262.6	1249.7	1262.6	1275.5	1286.9	1297.7	1282.8
37.5°	1217.6	1217.4	1185.6	1158.1	1143.3	1128.6	1143.3	1158.1	1185.6	1217.4	1217.6
40°	1164.6	1149.7	1102.2	1062.4	1045.4	1028.5	1045.4	1062.4	1102.2	1149.7	1164.6
42.5°	1095.8	1063.8	1003.3	952.8	932.0	911.3	932.0	952.8	1003.3	1063.8	1095.8
45°	970.0	917.8	852.0	796.9	773.8	750.7	773.8	796.9	852.0	917.8	970.0
47.5°	829.5	768.7	710.0	660.5	639.0	617.4	639.0	660.5	710.0	768.7	829.5
50°	740.1	679.0	624.1	577.0	553.2	529.5	553.2	577.0	624.1	679.0	740.1
52.5°	660.3	600.9	546.0	499.4	477.8	456.2	477.8	499.4	546.0	600.9	660.3
55°	547.0	492.7	440.5	397.6	382.7	367.7	382.7	397.6	440.5	492.7	547.0
57.5°	450.0	401.7	357.4	321.4	310.4	299.4	310.4	321.4	357.4	401.7	450.0
60°	387.8	344.3	309.8	281.6	272.8	264.0	272.8	281.6	309.8	344.3	387.8
62.5°	336.6	297.8	270.3	248.0	241.3	234.7	241.3	248.0	270.3	297.8	336.6
65°	274.7	242.8	221.8	204.8	200.1	195.3	200.1	204.8	221.8	242.8	274.7
67.5°	225.9	200.2	183.6	170.1	165.6	161.1	165.6	170.1	183.6	200.2	225.9
70°	196.8	174.1	159.2	147.2	143.8	140.4	143.8	147.2	159.2	174.1	196.8
72.5°	169.3	149.8	137.6	127.9	125.6	123.3	125.6	127.9	137.6	149.8	169.3
75°	129.9	115.0	106.8	100.4	99.0	97.7	99.0	100.4	106.8	115.0	129.9
77.5°	92.6	82.3	79.6	77.5	77.5	77.5	77.5	77.5	79.6	82.3	92.6
80°	70.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	70.9
82.5°	53.2	49.4	49.4	49.3	48.8	48.2	48.8	49.3	49.4	49.4	53.2
85°	29.0	27.0	22.9	19.3	17.3	15.3	17.3	19.3	22.9	27.0	29.0
87.5°	14.8	16.4	19.4	21.1	22.8	22.0	22.8	21.1	19.4	16.4	14.8
90°	48.9	63.8	78.7	87.2	95.7	91.5	95.7	87.2	78.7	63.8	48.9
92.5°	98.3	123.4	141.7	157.0	163.8	163.0	163.8	157.0	141.7	123.4	98.3
95°	197.9	227.7	257.4	278.7	291.5	287.2	291.5	278.7	257.4	227.7	197.9
97.5°	305.1	345.1	378.3	398.3	411.1	419.6	411.1	398.3	378.3	345.1	305.1
100°	376.6	414.9	453.2	476.6	497.9	506.4	497.9	476.6	453.2	414.9	376.6
102.5°	434.5	484.7	526.4	551.5	569.4	577.9	569.4	551.5	526.4	484.7	434.5
105°	529.8	583.0	627.7	659.6	678.7	685.1	678.7	659.6	627.7	583.0	529.8
107.5°	625.1	680.0	721.3	756.6	780.0	793.6	780.0	756.6	721.3	680.0	625.1
110°	700.0	744.7	789.4	821.3	844.7	853.2	844.7	821.3	789.4	744.7	700.0



TEST NUMBER: P1428310

CATALOG NUMBER: SQ2W-PR1-K-150U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	763.0	812.8	857.5	889.4	916.2	928.1	916.2	889.4	857.5	812.8	763.0
115°	851.1	917.0	957.5	987.2	1006.4	1017.0	1006.4	987.2	957.5	917.0	851.1
117.5°	924.3	993.2	1037.5	1060.4	1069.4	1077.0	1069.4	1060.4	1037.5	993.2	924.3
120°	970.2	1034.1	1085.1	1114.9	1125.5	1129.8	1125.5	1114.9	1085.1	1034.1	970.2
122.5°	1012.8	1073.2	1122.6	1159.2	1176.6	1180.9	1176.6	1159.2	1122.6	1073.2	1012.8
125°	1072.4	1129.8	1180.9	1217.0	1236.2	1246.8	1236.2	1217.0	1180.9	1129.8	1072.4
127.5°	1124.3	1186.4	1233.2	1266.0	1284.7	1293.2	1284.7	1266.0	1233.2	1186.4	1124.3
130°	1153.2	1217.0	1263.8	1300.0	1317.0	1325.5	1317.0	1300.0	1263.8	1217.0	1153.2
132.5°	1175.3	1242.6	1291.1	1323.8	1342.6	1351.1	1342.6	1323.8	1291.1	1242.6	1175.3
135°	1202.1	1272.4	1323.4	1355.3	1372.4	1380.9	1372.4	1355.3	1323.4	1272.4	1202.1
137.5°	1225.5	1289.4	1342.6	1376.2	1391.5	1397.0	1391.5	1376.2	1342.6	1289.4	1225.5
140°	1242.6	1297.9	1351.1	1383.0	1400.0	1402.1	1400.0	1383.0	1351.1	1297.9	1242.6
142.5°	1264.7	1308.1	1354.5	1386.4	1403.4	1407.2	1403.4	1386.4	1354.5	1308.1	1264.7
145°	1304.3	1329.8	1361.7	1391.5	1406.4	1410.7	1406.4	1391.5	1361.7	1329.8	1304.3
147.5°	1354.1	1362.1	1378.7	1398.3	1412.8	1415.8	1412.8	1398.3	1378.7	1362.1	1354.1
150°	1391.5	1389.4	1395.8	1408.5	1421.3	1419.2	1421.3	1408.5	1395.8	1389.4	1391.5
152.5°	1434.1	1421.7	1421.3	1427.2	1433.2	1432.8	1433.2	1427.2	1421.3	1421.7	1434.1
155°	1506.4	1483.0	1470.2	1466.0	1466.0	1463.8	1466.0	1466.0	1470.2	1483.0	1506.4
157.5°	1586.0	1553.2	1534.1	1523.8	1520.9	1516.2	1520.9	1523.8	1534.1	1553.2	1586.0
160°	1640.4	1604.3	1585.1	1568.1	1561.7	1555.3	1561.7	1568.1	1585.1	1604.3	1640.4
162.5°	1691.5	1657.0	1636.2	1620.9	1614.5	1604.7	1614.5	1620.9	1636.2	1657.0	1691.5
165°	1774.5	1738.3	1714.9	1702.1	1693.6	1685.1	1693.6	1702.1	1714.9	1738.3	1774.5
167.5°	1857.5	1817.9	1802.6	1788.1	1780.0	1764.7	1780.0	1788.1	1802.6	1817.9	1857.5
170°	1908.5	1872.4	1863.8	1851.1	1836.2	1819.2	1836.2	1851.1	1863.8	1872.4	1908.5
172.5°	1952.8	1928.5	1920.0	1907.3	1902.6	1889.0	1902.6	1907.3	1920.0	1928.5	1952.8
175°	2017.0	1997.9	1997.9	1995.8	1989.4	1976.6	1989.4	1995.8	1997.9	1997.9	2017.0
177.5°	2070.7	2060.4	2067.3	2067.3	2065.6	2053.6	2065.6	2067.3	2067.3	2060.4	2070.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



TEST NUMBER: P1428310

CATALOG NUMBER: SQ2W-PR1-K-150U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1496.9	1496.9	1496.9	1496.9
2.5°	1503.4	1507.1	1499.0	1490.8
5°	1509.6	1512.3	1500.8	1489.3
7.5°	1523.1	1521.8	1505.4	1489.0
10°	1530.0	1527.1	1507.4	1487.8
12.5°	1523.9	1526.3	1503.4	1480.4
15°	1502.0	1513.0	1485.9	1458.8
17.5°	1467.4	1477.3	1449.0	1420.6
20°	1445.0	1451.8	1424.0	1396.2
22.5°	1425.5	1429.8	1402.0	1374.2
25°	1392.1	1391.6	1367.2	1342.8
27.5°	1348.1	1338.6	1324.2	1309.8
30°	1318.4	1300.8	1291.3	1281.8
32.5°	1287.5	1262.6	1256.9	1251.2
35°	1242.1	1210.4	1205.6	1200.9
37.5°	1186.4	1160.6	1150.8	1141.1
40°	1147.0	1129.7	1113.4	1097.1
42.5°	1099.4	1095.5	1069.5	1043.4
45°	1008.6	1028.8	993.5	958.3
47.5°	892.3	930.3	894.1	857.9
50°	807.2	850.3	821.1	791.9
52.5°	724.2	766.9	745.8	724.8
55°	603.2	642.7	631.9	621.0
57.5°	502.2	539.7	532.7	525.8
60°	440.0	477.9	473.2	468.5
62.5°	386.7	423.3	419.6	416.0
65°	317.4	348.6	345.2	341.8
67.5°	260.7	286.4	284.7	282.9
70°	227.4	250.1	249.4	248.7
72.5°	196.0	216.3	217.3	218.2
75°	151.6	168.4	170.4	172.4
77.5°	110.5	124.4	126.6	128.8
80°	84.4	95.3	98.0	100.7
82.5°	60.8	67.5	71.3	75.1
85°	29.0	29.8	33.2	36.6
87.5°	15.4	14.4	12.7	11.0
90°	38.3	23.4	14.9	6.4
92.5°	82.6	57.4	40.4	23.4
95°	166.0	131.9	93.6	66.0
97.5°	264.3	209.4	171.5	126.0
100°	317.0	263.8	227.7	178.7
102.5°	374.9	330.2	280.4	231.5
105°	478.7	423.4	366.0	310.6
107.5°	574.9	514.0	445.1	395.3
110°	636.2	570.2	497.9	453.2



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	695.8	628.1	554.0	509.4
115°	776.6	702.1	634.0	595.8
117.5°	854.5	777.9	706.0	675.8
120°	902.1	825.5	755.3	731.9
122.5°	941.3	866.4	801.3	791.5
125°	1000.0	923.4	868.1	880.9
127.5°	1047.7	977.5	942.6	971.1
130°	1076.6	1014.9	993.6	1034.1
132.5°	1102.1	1054.1	1044.7	1100.4
135°	1140.4	1112.8	1121.3	1197.9
137.5°	1186.0	1175.3	1203.8	1300.4
140°	1214.9	1221.3	1261.7	1370.2
142.5°	1254.1	1268.9	1321.3	1436.6
145°	1314.9	1346.8	1414.9	1529.8
147.5°	1383.8	1425.1	1509.4	1627.2
150°	1429.8	1483.0	1572.4	1685.1
152.5°	1482.6	1537.5	1626.8	1741.3
155°	1563.8	1625.5	1719.2	1817.0
157.5°	1646.8	1709.8	1799.2	1884.7
160°	1697.9	1766.0	1846.8	1925.6
162.5°	1755.8	1818.7	1889.4	1959.6
165°	1840.4	1891.5	1949.0	2008.5
167.5°	1911.5	1954.1	1999.2	2045.6
170°	1957.5	1991.5	2029.8	2066.0
172.5°	1996.6	2023.8	2051.9	2083.0
175°	2049.0	2063.8	2080.9	2100.0
177.5°	2089.4	2094.5	2099.6	2108.1
180°	2106.4	2106.4	2106.4	2106.4



TEST NUMBER: P1428310
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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	16.38	17.11	17.45	18.17	19.62	12.75	13.48	13.82	14.54	15.99
	3H	17.58	18.23	18.65	19.30	20.77	13.90	14.55	14.98	15.63	17.09
	4H	18.06	18.67	19.14	19.75	21.22	14.36	14.97	15.45	16.05	17.52
	6H	18.35	18.91	19.44	19.99	21.48	14.69	15.26	15.79	16.34	17.82
	8H	18.45	18.98	19.55	20.08	21.56	14.83	15.37	15.93	16.46	17.94
	12H	18.48	18.99	19.59	20.08	21.58	14.85	15.37	15.96	16.45	17.96
4H	2H	16.47	17.08	17.56	18.16	19.63	13.44	14.06	14.54	15.14	16.61
	3H	17.92	18.43	19.02	19.53	21.02	14.79	15.30	15.89	16.40	17.89
	4H	18.54	19.01	19.65	20.10	21.61	15.33	15.80	16.43	16.89	18.40
	6H	18.96	19.36	20.08	20.48	21.98	15.75	16.15	16.87	17.27	18.77
	8H	19.12	19.49	20.23	20.60	22.12	15.93	16.31	17.05	17.42	18.93
	12H	19.18	19.52	20.31	20.64	22.16	15.98	16.32	17.11	17.44	18.96
8H	4H	18.55	18.93	19.67	20.04	21.55	15.65	16.02	16.76	17.13	18.64
	6H	19.08	19.39	20.22	20.54	22.05	16.18	16.49	17.32	17.64	19.15
	8H	19.32	19.59	20.46	20.72	22.25	16.44	16.71	17.58	17.85	19.38
	12H	19.43	19.67	20.57	20.80	22.36	16.53	16.77	17.68	17.90	19.47
12H	4H	18.51	18.85	19.64	19.97	21.49	15.66	16.00	16.79	17.12	18.64
	6H	19.07	19.34	20.21	20.47	22.01	16.25	16.52	17.39	17.65	19.19
	8H	19.32	19.56	20.46	20.68	22.25	16.54	16.78	17.68	17.90	19.47