

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: P1428553

Luminaire Tested: SQ2W-WBM-K-125U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428553  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBM-K-125U-050D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

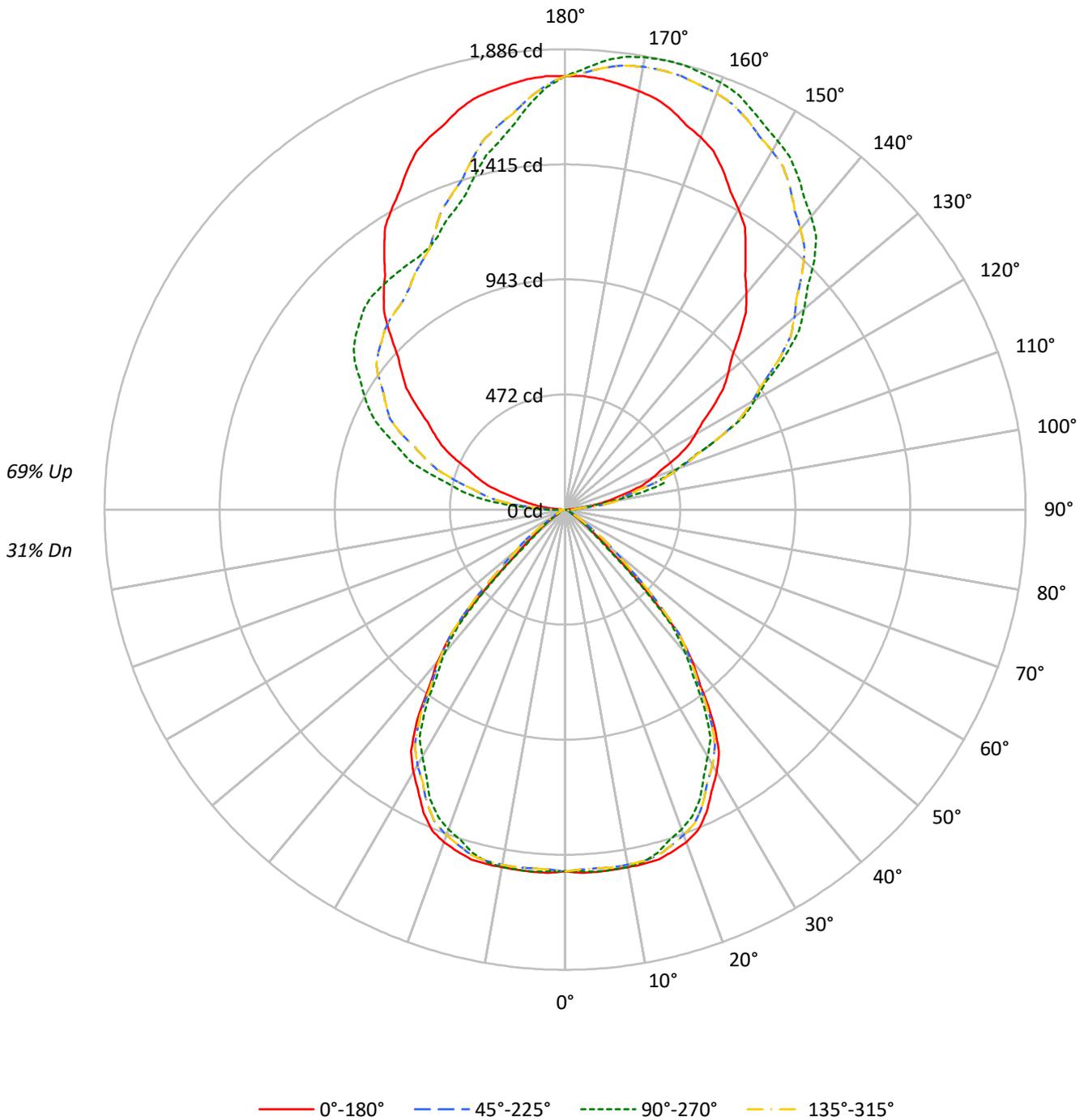
Lumens per Lamp: N/A  
Luminaire Lumens: 7511.5 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	95	91	87	84	85	82	79	77	65	63	62	50	49	48	36	35	35	28
2	87	81	75	71	78	73	68	65	59	56	53	45	43	42	33	32	31	26
3	80	72	65	60	72	65	60	55	53	49	46	41	39	37	30	29	28	23
4	74	64	57	52	67	59	53	48	48	43	40	37	35	32	28	26	25	21
5	68	58	51	45	61	53	47	42	43	39	35	34	31	29	26	24	23	19
6	63	52	45	40	57	48	42	37	39	35	31	31	28	26	24	22	20	17
7	59	47	40	35	53	43	37	33	36	31	28	29	26	23	22	20	19	16
8	54	43	36	31	49	40	34	29	33	28	25	26	23	21	20	18	17	15
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	19	17	16	13
10	47	36	30	25	43	33	28	24	28	24	21	23	20	17	18	16	14	12

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

	0°	90°	180°	270°
0°	23936	23936	23936	23936
5°	24154	24142	24154	24142
10°	24398	24387	24398	24387
15°	24805	24366	24805	24366
20°	24924	23970	24924	23970
25°	24410	23296	24410	23296
30°	23161	21783	23161	21783
35°	20830	19653	20830	19653
40°	17076	16178	17076	16178
45°	10677	10028	10677	10028
50°	4177	3820	4177	3820
55°	2060	2041	2060	2041
60°	962	872	962	872
65°	867	814	867	814
70°	840	807	840	807
75°	842	755	842	755
80°	790	725	790	725
85°	797	667	797	667

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°  
 Vertical Angle: 45°  
 Luminance: 12154 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	1.9
10°-20°	414.5	5.5
20°-30°	612.8	8.2
30°-40°	634.1	8.4
40°-50°	381.4	5.1
50°-60°	91.2	1.2
60°-70°	24.9	0.3
70°-80°	13.9	0.2
80°-90°	11.7	0.2
90°-100°	141.3	1.9
100°-110°	412.2	5.5
110°-120°	672.6	9.0
120°-130°	853.5	11.4
130°-140°	913.3	12.2
140°-150°	852.8	11.4
150°-160°	701.7	9.3
160°-170°	470.6	6.3
170°-180°	167.1	2.2
0°-30°	1169.1	15.6
0°-40°	1803.1	24.0
0°-60°	2275.7	30.3
0°-90°	2326.3	31.0
90°-120°	1226.1	16.3
90°-150°	3845.7	51.2
90°-180°	5185.0	69.0
0°-180°	7511.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1482	1482	1482	1482	1482	
5°	1490	1490	1490	1490	1490	142
15°	1484	1458	1484	1458	1484	418
25°	1370	1308	1370	1308	1370	626
35°	1057	997	1057	997	1057	649
45°	468	439	468	439	468	362
55°	73	72	73	72	73	73
65°	23	21	23	21	23	23
75°	14	12	14	12	14	14
85°	4	4	4	4	4	4
90°	5	40	5	77	5	4
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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1489.9	1488.2	1486.4	1482.0	1476.7	1476.8	1482.3	1486.2	1484.9	1483.7	1484.9
5°	1490.3	1488.1	1485.9	1480.9	1474.9	1476.3	1485.1	1491.5	1490.6	1489.6	1490.6
7.5°	1488.8	1487.8	1486.9	1483.2	1478.6	1479.6	1486.3	1491.0	1489.5	1488.1	1489.5
10°	1488.2	1488.5	1488.8	1484.0	1477.3	1477.5	1484.4	1489.4	1488.5	1487.5	1488.5
12.5°	1487.6	1490.2	1492.8	1486.2	1476.6	1474.4	1479.9	1483.4	1481.2	1479.0	1481.2
15°	1484.0	1489.0	1494.1	1485.1	1471.6	1464.8	1464.8	1464.0	1460.8	1457.7	1460.8
17.5°	1468.2	1474.2	1480.2	1468.1	1449.9	1438.5	1433.6	1429.0	1425.1	1421.3	1425.1
20°	1450.6	1456.6	1462.6	1448.2	1427.0	1412.5	1404.6	1398.3	1396.7	1395.1	1396.7
22.5°	1422.7	1429.2	1435.7	1420.3	1397.6	1382.0	1373.3	1366.2	1363.6	1361.0	1363.6
25°	1370.2	1375.3	1380.3	1364.3	1341.3	1326.6	1320.3	1314.6	1311.2	1307.7	1311.2
27.5°	1300.3	1303.1	1305.9	1290.4	1268.8	1254.3	1247.1	1240.5	1235.7	1230.9	1235.7
30°	1242.3	1243.6	1244.8	1232.4	1215.3	1202.0	1192.6	1183.6	1176.0	1168.4	1176.0
32.5°	1173.5	1174.8	1176.0	1165.1	1150.0	1138.0	1129.1	1120.8	1114.8	1108.7	1114.8
35°	1056.8	1056.2	1055.6	1048.5	1039.4	1029.6	1019.2	1009.8	1003.4	997.1	1003.4
37.5°	910.8	911.7	912.6	907.4	900.1	892.4	884.2	876.4	870.0	863.6	870.0
40°	810.2	810.8	811.5	807.1	801.1	792.1	780.1	770.7	769.1	767.6	769.1
42.5°	687.4	696.9	706.3	702.5	694.2	685.5	676.3	667.5	660.1	652.7	660.1
45°	467.6	496.4	525.1	532.3	532.3	526.8	515.7	499.9	469.5	439.2	469.5
47.5°	264.1	296.8	329.5	351.0	368.8	361.2	328.4	294.5	257.7	220.9	257.7
50°	166.3	188.4	210.5	238.1	267.5	259.4	213.9	176.7	164.4	152.1	164.4
52.5°	118.0	129.2	140.5	166.4	197.3	193.6	155.2	124.7	118.2	111.7	118.2
55°	73.2	77.3	81.4	94.1	109.5	108.6	91.2	77.5	75.0	72.5	75.0
57.5°	43.5	47.7	52.0	57.6	63.6	63.6	57.6	52.0	48.0	44.1	48.0
60°	29.8	33.3	36.8	41.5	46.5	45.9	39.6	34.0	30.5	27.0	30.5
62.5°	25.9	27.3	28.8	32.4	36.7	36.3	31.2	27.1	25.9	24.7	25.9
65°	22.7	23.1	23.4	23.7	24.0	23.8	23.2	22.6	22.0	21.3	22.0
67.5°	20.0	20.4	20.7	20.6	20.3	20.2	20.1	19.9	19.3	18.8	19.3
70°	17.8	18.1	18.4	18.5	18.5	18.3	18.0	17.7	17.4	17.1	17.4
72.5°	16.1	16.4	16.7	16.6	16.3	16.2	16.1	15.9	15.4	14.8	15.4
75°	13.5	13.5	13.5	13.5	13.5	13.3	13.0	12.7	12.4	12.1	12.4
77.5°	10.2	10.6	10.9	10.7	10.4	10.2	10.2	10.2	9.8	9.5	9.8
80°	8.5	8.8	9.2	9.0	8.7	8.5	8.5	8.4	8.1	7.8	8.1
82.5°	6.8	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.4	6.1	6.4
85°	4.3	4.3	4.3	4.0	3.7	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	2.2	3.9	5.9	7.3	8.1	8.3	8.3	8.7	9.0	9.0	9.0
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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1486.2	1482.3	1476.8	1476.7	1482.0	1486.4	1488.2	1489.9	1488.2	1486.4	1482.0
5°	1491.5	1485.1	1476.3	1474.9	1480.9	1485.9	1488.1	1490.3	1488.1	1485.9	1480.9
7.5°	1491.0	1486.3	1479.6	1478.6	1483.2	1486.9	1487.8	1488.8	1487.8	1486.9	1483.2
10°	1489.4	1484.4	1477.5	1477.3	1484.0	1488.8	1488.5	1488.2	1488.5	1488.8	1484.0
12.5°	1483.4	1479.9	1474.4	1476.6	1486.2	1492.8	1490.2	1487.6	1490.2	1492.8	1486.2
15°	1464.0	1464.8	1464.8	1471.6	1485.1	1494.1	1489.0	1484.0	1489.0	1494.1	1485.1
17.5°	1429.0	1433.6	1438.5	1449.9	1468.1	1480.2	1474.2	1468.2	1474.2	1480.2	1468.1
20°	1398.3	1404.6	1412.5	1427.0	1448.2	1462.6	1456.6	1450.6	1456.6	1462.6	1448.2
22.5°	1366.2	1373.3	1382.0	1397.6	1420.3	1435.7	1429.2	1422.7	1429.2	1435.7	1420.3
25°	1314.6	1320.3	1326.6	1341.3	1364.3	1380.3	1375.3	1370.2	1375.3	1380.3	1364.3
27.5°	1240.5	1247.1	1254.3	1268.8	1290.4	1305.9	1303.1	1300.3	1303.1	1305.9	1290.4
30°	1183.6	1192.6	1202.0	1215.3	1232.4	1244.8	1243.6	1242.3	1243.6	1244.8	1232.4
32.5°	1120.8	1129.1	1138.0	1150.0	1165.1	1176.0	1174.8	1173.5	1174.8	1176.0	1165.1
35°	1009.8	1019.2	1029.6	1039.4	1048.5	1055.6	1056.2	1056.8	1056.2	1055.6	1048.5
37.5°	876.4	884.2	892.4	900.1	907.4	912.6	911.7	910.8	911.7	912.6	907.4
40°	770.7	780.1	792.1	801.1	807.1	811.5	810.8	810.2	810.8	811.5	807.1
42.5°	667.5	676.3	685.5	694.2	702.5	706.3	696.9	687.4	696.9	706.3	702.5
45°	499.9	515.7	526.8	532.3	532.3	525.1	496.4	467.6	496.4	525.1	532.3
47.5°	294.5	328.4	361.2	368.8	351.0	329.5	296.8	264.1	296.8	329.5	351.0
50°	176.7	213.9	259.4	267.5	238.1	210.5	188.4	166.3	188.4	210.5	238.1
52.5°	124.7	155.2	193.6	197.3	166.4	140.5	129.2	118.0	129.2	140.5	166.4
55°	77.5	91.2	108.6	109.5	94.1	81.4	77.3	73.2	77.3	81.4	94.1
57.5°	52.0	57.6	63.6	63.6	57.6	52.0	47.7	43.5	47.7	52.0	57.6
60°	34.0	39.6	45.9	46.5	41.5	36.8	33.3	29.8	33.3	36.8	41.5
62.5°	27.1	31.2	36.3	36.7	32.4	28.8	27.3	25.9	27.3	28.8	32.4
65°	22.6	23.2	23.8	24.0	23.7	23.4	23.1	22.7	23.1	23.4	23.7
67.5°	19.9	20.1	20.2	20.3	20.6	20.7	20.4	20.0	20.4	20.7	20.6
70°	17.7	18.0	18.3	18.5	18.5	18.4	18.1	17.8	18.1	18.4	18.5
72.5°	15.9	16.1	16.2	16.3	16.6	16.7	16.4	16.1	16.4	16.7	16.6
75°	12.7	13.0	13.3	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
77.5°	10.2	10.2	10.2	10.4	10.7	10.9	10.6	10.2	10.6	10.9	10.7
80°	8.4	8.5	8.5	8.7	9.0	9.2	8.8	8.5	8.8	9.2	9.0
82.5°	6.7	6.8	6.8	6.9	6.9	6.9	6.9	6.8	6.9	6.9	6.9
85°	3.6	3.6	3.6	3.7	4.0	4.3	4.3	4.3	4.3	4.3	4.0
87.5°	8.7	8.3	8.3	8.1	7.3	5.9	3.9	2.2	3.9	5.6	8.0
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: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-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: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1476.7	1476.8	1482.3	1486.2	1484.9	1483.7	1484.9	1486.2	1482.3	1476.8	1476.7
5°	1474.9	1476.3	1485.1	1491.5	1490.6	1489.6	1490.6	1491.5	1485.1	1476.3	1474.9
7.5°	1478.6	1479.6	1486.3	1491.0	1489.5	1488.1	1489.5	1491.0	1486.3	1479.6	1478.6
10°	1477.3	1477.5	1484.4	1489.4	1488.5	1487.5	1488.5	1489.4	1484.4	1477.5	1477.3
12.5°	1476.6	1474.4	1479.9	1483.4	1481.2	1479.0	1481.2	1483.4	1479.9	1474.4	1476.6
15°	1471.6	1464.8	1464.8	1464.0	1460.8	1457.7	1460.8	1464.0	1464.8	1464.8	1471.6
17.5°	1449.9	1438.5	1433.6	1429.0	1425.1	1421.3	1425.1	1429.0	1433.6	1438.5	1449.9
20°	1427.0	1412.5	1404.6	1398.3	1396.7	1395.1	1396.7	1398.3	1404.6	1412.5	1427.0
22.5°	1397.6	1382.0	1373.3	1366.2	1363.6	1361.0	1363.6	1366.2	1373.3	1382.0	1397.6
25°	1341.3	1326.6	1320.3	1314.6	1311.2	1307.7	1311.2	1314.6	1320.3	1326.6	1341.3
27.5°	1268.8	1254.3	1247.1	1240.5	1235.7	1230.9	1235.7	1240.5	1247.1	1254.3	1268.8
30°	1215.3	1202.0	1192.6	1183.6	1176.0	1168.4	1176.0	1183.6	1192.6	1202.0	1215.3
32.5°	1150.0	1138.0	1129.1	1120.8	1114.8	1108.7	1114.8	1120.8	1129.1	1138.0	1150.0
35°	1039.4	1029.6	1019.2	1009.8	1003.4	997.1	1003.4	1009.8	1019.2	1029.6	1039.4
37.5°	900.1	892.4	884.2	876.4	870.0	863.6	870.0	876.4	884.2	892.4	900.1
40°	801.1	792.1	780.1	770.7	769.1	767.6	769.1	770.7	780.1	792.1	801.1
42.5°	694.2	685.5	676.3	667.5	660.1	652.7	660.1	667.5	676.3	685.5	694.2
45°	532.3	526.8	515.7	499.9	469.5	439.2	469.5	499.9	515.7	526.8	532.3
47.5°	368.8	361.2	328.4	294.5	257.7	220.9	257.7	294.5	328.4	361.2	368.8
50°	267.5	259.4	213.9	176.7	164.4	152.1	164.4	176.7	213.9	259.4	267.5
52.5°	197.3	193.6	155.2	124.7	118.2	111.7	118.2	124.7	155.2	193.6	197.3
55°	109.5	108.6	91.2	77.5	75.0	72.5	75.0	77.5	91.2	108.6	109.5
57.5°	63.6	63.6	57.6	52.0	48.0	44.1	48.0	52.0	57.6	63.6	63.6
60°	46.5	45.9	39.6	34.0	30.5	27.0	30.5	34.0	39.6	45.9	46.5
62.5°	36.7	36.3	31.2	27.1	25.9	24.7	25.9	27.1	31.2	36.3	36.7
65°	24.0	23.8	23.2	22.6	22.0	21.3	22.0	22.6	23.2	23.8	24.0
67.5°	20.3	20.2	20.1	19.9	19.3	18.8	19.3	19.9	20.1	20.2	20.3
70°	18.5	18.3	18.0	17.7	17.4	17.1	17.4	17.7	18.0	18.3	18.5
72.5°	16.3	16.2	16.1	15.9	15.4	14.8	15.4	15.9	16.1	16.2	16.3
75°	13.5	13.3	13.0	12.7	12.4	12.1	12.4	12.7	13.0	13.3	13.5
77.5°	10.4	10.2	10.2	10.2	9.8	9.5	9.8	10.2	10.2	10.2	10.4
80°	8.7	8.5	8.5	8.4	8.1	7.8	8.1	8.4	8.5	8.5	8.7
82.5°	6.9	6.8	6.8	6.7	6.4	6.1	6.4	6.7	6.8	6.8	6.9
85°	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7
87.5°	9.5	11.9	14.4	15.8	17.3	16.6	17.3	15.8	14.4	11.9	9.5
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: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-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: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1482.5	1482.5	1482.5	1482.5
2.5°	1482.0	1486.4	1488.2	1489.9
5°	1480.9	1485.9	1488.1	1490.3
7.5°	1483.2	1486.9	1487.8	1488.8
10°	1484.0	1488.8	1488.5	1488.2
12.5°	1486.2	1492.8	1490.2	1487.6
15°	1485.1	1494.1	1489.0	1484.0
17.5°	1468.1	1480.2	1474.2	1468.2
20°	1448.2	1462.6	1456.6	1450.6
22.5°	1420.3	1435.7	1429.2	1422.7
25°	1364.3	1380.3	1375.3	1370.2
27.5°	1290.4	1305.9	1303.1	1300.3
30°	1232.4	1244.8	1243.6	1242.3
32.5°	1165.1	1176.0	1174.8	1173.5
35°	1048.5	1055.6	1056.2	1056.8
37.5°	907.4	912.6	911.7	910.8
40°	807.1	811.5	810.8	810.2
42.5°	702.5	706.3	696.9	687.4
45°	532.3	525.1	496.4	467.6
47.5°	351.0	329.5	296.8	264.1
50°	238.1	210.5	188.4	166.3
52.5°	166.4	140.5	129.2	118.0
55°	94.1	81.4	77.3	73.2
57.5°	57.6	52.0	47.7	43.5
60°	41.5	36.8	33.3	29.8
62.5°	32.4	28.8	27.3	25.9
65°	23.7	23.4	23.1	22.7
67.5°	20.6	20.7	20.4	20.0
70°	18.5	18.4	18.1	17.8
72.5°	16.6	16.7	16.4	16.1
75°	13.5	13.5	13.5	13.5
77.5°	10.7	10.9	10.6	10.2
80°	9.0	9.2	8.8	8.5
82.5°	6.9	6.9	6.9	6.8
85°	4.0	4.3	4.3	4.3
87.5°	8.0	5.6	3.9	2.2
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: P1428553

CATALOG NUMBER: SQ2W-WBM-K-125U-050D-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: P1428553  
 CATALOG NUMBER: SQ2W-WBM-K-125U-050D-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	0.79	1.43	1.92	2.53	4.06	0.77	1.41	1.90	2.51	4.04
	3H	1.48	2.04	2.61	3.16	4.70	1.39	1.95	2.52	3.07	4.61
	4H	1.83	2.37	2.98	3.48	5.03	1.69	2.22	2.83	3.34	4.89
	6H	2.10	2.59	3.25	3.71	5.27	1.91	2.41	3.07	3.52	5.08
	8H	2.22	2.68	3.37	3.81	5.37	2.01	2.48	3.16	3.61	5.16
	12H	2.29	2.73	3.45	3.86	5.43	2.06	2.50	3.22	3.63	5.20
4H	2H	0.87	1.41	2.02	2.52	4.07	0.85	1.39	2.00	2.50	4.05
	3H	1.81	2.25	2.96	3.39	4.95	1.72	2.16	2.87	3.30	4.86
	4H	2.31	2.72	3.47	3.85	5.43	2.16	2.57	3.31	3.69	5.28
	6H	2.74	3.08	3.90	4.23	5.81	2.53	2.88	3.69	4.03	5.60
	8H	2.92	3.25	4.08	4.39	5.98	2.69	3.02	3.85	4.16	5.75
	12H	3.05	3.34	4.22	4.50	6.09	2.78	3.08	3.96	4.23	5.82
8H	4H	2.43	2.75	3.59	3.89	5.48	2.28	2.61	3.44	3.75	5.34
	6H	3.00	3.27	4.18	4.45	6.04	2.80	3.07	3.98	4.25	5.84
	8H	3.29	3.52	4.48	4.69	6.29	3.07	3.30	4.25	4.46	6.07
	12H	3.51	3.71	4.70	4.87	6.51	3.24	3.44	4.43	4.60	6.24
12H	4H	2.40	2.69	3.57	3.85	5.44	2.26	2.56	3.44	3.71	5.30
	6H	3.04	3.27	4.22	4.44	6.04	2.85	3.08	4.03	4.24	5.85
	8H	3.36	3.56	4.54	4.72	6.36	3.14	3.35	4.33	4.51	6.15