

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: P1435900

Luminaire Tested: SQ2W-FB-0U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435900
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-0U-100D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

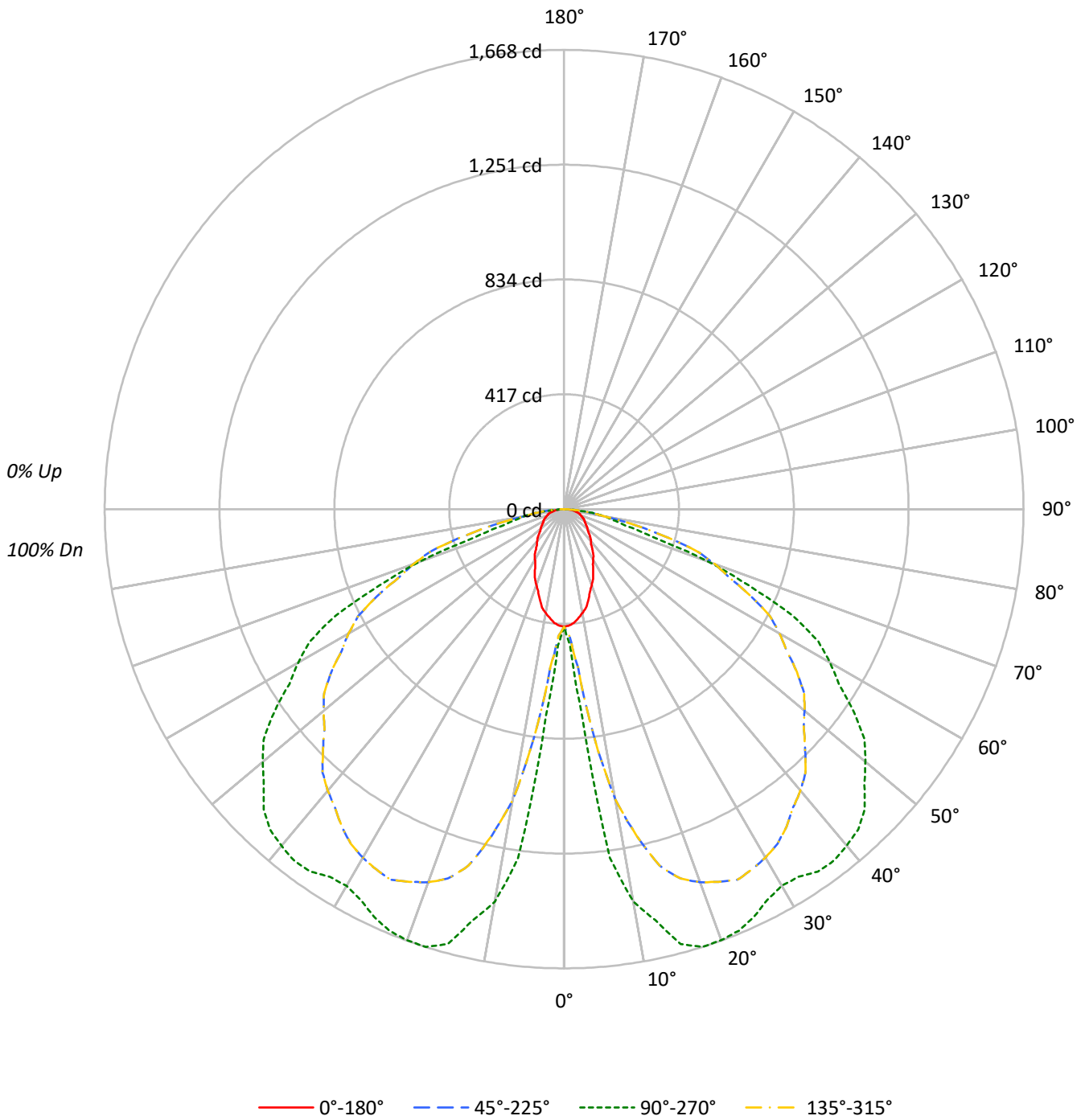
Lumens per Lamp: N/A
Luminaire Lumens: 4214.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.6
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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CATALOG NUMBER: SQ2W-FB-0U-100D-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6889	6889	6889	6889
5°	6716	12202	6716	12202
10°	6291	23746	6291	23746
15°	5693	27331	5693	27331
20°	5041	28623	5041	28623
25°	4459	29093	4459	29093
30°	3939	29451	3939	29451
35°	3518	31662	3518	31662
40°	3199	33640	3199	33640
45°	2952	35227	2952	35227
50°	2783	35866	2783	35866
55°	2714	36152	2714	36152
60°	2783	35972	2783	35972
65°	2900	34956	2900	34956
70°	3002	26440	3002	26440
75°	3325	14591	3325	14591
80°	3431	13547	3431	13547
85°	3427	5706	3427	5706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 36478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	1.7
10°-20°	326.2	7.7
20°-30°	574.1	13.6
30°-40°	743.1	17.6
40°-50°	819.5	19.4
50°-60°	764.9	18.1
60°-70°	590.9	14.0
70°-80°	272.4	6.5
80°-90°	52.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	971.8	23.1
0°-40°	1714.9	40.7
0°-60°	3299.2	78.3
0°-90°	4214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	427	427	427	427	427	
5°	414	753	414	753	414	38
15°	341	1635	341	1635	341	95
25°	250	1633	250	1633	250	115
35°	178	1606	178	1606	178	112
45°	129	1543	129	1543	129	100
55°	96	1284	96	1284	96	87
65°	76	915	76	915	76	74
75°	53	234	53	234	53	55
85°	18	31	18	31	18	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7
2.5°	423.5	431.5	439.5	448.1	456.8	466.3	476.5	485.3	489.7	494.0	489.7
5°	414.4	441.8	469.1	508.8	552.6	602.3	657.9	705.5	729.2	752.9	729.2
7.5°	398.4	454.0	509.7	627.5	766.1	910.0	1059.2	1182.9	1230.3	1277.7	1230.3
10°	383.7	461.2	538.7	738.6	979.3	1164.4	1293.9	1397.4	1422.9	1448.4	1422.9
12.5°	367.2	472.5	577.7	824.5	1118.4	1310.8	1401.7	1476.3	1502.6	1528.9	1502.6
15°	340.6	491.0	641.5	920.5	1242.4	1440.2	1514.1	1576.8	1606.0	1635.1	1606.0
17.5°	313.1	513.3	713.5	998.2	1310.9	1503.9	1577.0	1635.8	1651.7	1667.5	1651.7
20°	293.4	528.6	763.9	1049.1	1350.9	1533.2	1596.1	1645.8	1655.9	1665.9	1655.9
22.5°	275.3	538.3	801.3	1086.8	1379.9	1550.2	1597.8	1636.2	1646.9	1657.7	1646.9
25°	250.3	546.6	843.0	1127.7	1408.5	1564.0	1594.1	1618.5	1625.8	1633.1	1625.8
27.5°	226.1	539.2	852.3	1133.4	1403.9	1549.0	1568.7	1585.2	1592.3	1599.4	1592.3
30°	211.3	529.5	847.8	1126.3	1391.7	1531.6	1546.2	1559.7	1569.7	1579.7	1569.7
32.5°	198.2	517.9	837.6	1112.7	1372.9	1509.9	1523.8	1539.6	1561.3	1583.0	1561.3
35°	178.5	493.1	807.6	1079.8	1337.9	1477.8	1499.7	1526.2	1566.3	1606.4	1566.3
37.5°	161.7	461.3	760.9	1030.3	1289.6	1442.2	1488.0	1532.0	1570.6	1609.3	1570.6
40°	151.8	439.0	726.3	993.7	1254.4	1415.4	1476.5	1530.5	1563.3	1596.1	1563.3
42.5°	142.0	413.9	685.8	951.0	1214.0	1381.1	1452.4	1514.1	1546.9	1579.7	1546.9
45°	129.3	373.6	618.0	880.8	1149.8	1326.2	1410.1	1480.8	1511.8	1542.8	1511.8
47.5°	117.4	329.6	541.9	805.9	1087.1	1272.2	1361.2	1433.6	1456.2	1478.8	1456.2
50°	110.8	300.4	490.1	755.0	1045.0	1233.7	1321.2	1391.4	1409.7	1427.9	1409.7
52.5°	104.2	272.0	439.8	705.2	1003.2	1193.4	1275.8	1341.8	1358.6	1375.4	1358.6
55°	96.4	233.2	370.0	632.6	937.1	1125.4	1197.5	1255.1	1269.7	1284.3	1269.7
57.5°	89.5	199.8	310.1	564.5	866.8	1048.7	1110.2	1159.2	1171.1	1183.0	1171.1
60°	86.2	181.9	277.7	521.8	815.4	990.0	1045.6	1090.3	1102.2	1114.0	1102.2
62.5°	81.2	164.6	247.9	479.1	759.6	925.5	976.7	1017.9	1029.0	1040.2	1029.0
65°	75.9	143.4	210.9	419.2	674.5	823.6	866.5	900.4	907.7	915.0	907.7
67.5°	68.5	125.8	183.0	364.4	587.0	711.7	738.3	754.9	741.2	727.5	741.2
70°	63.6	116.5	169.4	331.0	528.9	632.4	641.5	638.5	599.3	560.1	599.3
72.5°	60.3	107.4	154.4	294.3	465.2	540.6	520.6	487.0	412.7	338.5	412.7
75°	53.3	91.6	129.9	235.3	362.9	383.0	295.4	230.2	232.1	233.9	232.1
77.5°	43.5	72.1	100.8	165.5	242.3	257.5	211.2	176.8	178.5	180.1	178.5
80°	36.9	59.7	82.5	108.1	134.5	146.8	145.0	143.8	144.8	145.7	144.8
82.5°	30.4	47.3	64.3	79.6	94.4	102.7	104.5	105.5	104.3	103.0	104.3
85°	18.5	28.5	38.5	44.5	49.0	47.6	40.3	34.4	32.6	30.8	32.6
87.5°	6.6	10.2	13.9	12.6	9.7	8.2	8.2	8.2	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7
2.5°	485.3	476.5	466.3	456.8	448.1	439.5	431.5	423.5	431.5	439.5	448.1
5°	705.5	657.9	602.3	552.6	508.8	469.1	441.8	414.4	441.8	469.1	508.8
7.5°	1182.9	1059.2	910.0	766.1	627.5	509.7	454.0	398.4	454.0	509.7	627.5
10°	1397.4	1293.9	1164.4	979.3	738.6	538.7	461.2	383.7	461.2	538.7	738.6
12.5°	1476.3	1401.7	1310.8	1118.4	824.5	577.7	472.5	367.2	472.5	577.7	824.5
15°	1576.8	1514.1	1440.2	1242.4	920.5	641.5	491.0	340.6	491.0	641.5	920.5
17.5°	1635.8	1577.0	1503.9	1310.9	998.2	713.5	513.3	313.1	513.3	713.5	998.2
20°	1645.8	1596.1	1533.2	1350.9	1049.1	763.9	528.6	293.4	528.6	763.9	1049.1
22.5°	1636.2	1597.8	1550.2	1379.9	1086.8	801.3	538.3	275.3	538.3	801.3	1086.8
25°	1618.5	1594.1	1564.0	1408.5	1127.7	843.0	546.6	250.3	546.6	843.0	1127.7
27.5°	1585.2	1568.7	1549.0	1403.9	1133.4	852.3	539.2	226.1	539.2	852.3	1133.4
30°	1559.7	1546.2	1531.6	1391.7	1126.3	847.8	529.5	211.3	529.5	847.8	1126.3
32.5°	1539.6	1523.8	1509.9	1372.9	1112.7	837.6	517.9	198.2	517.9	837.6	1112.7
35°	1526.2	1499.7	1477.8	1337.9	1079.8	807.6	493.1	178.5	493.1	807.6	1079.8
37.5°	1532.0	1488.0	1442.2	1289.6	1030.3	760.9	461.3	161.7	461.3	760.9	1030.3
40°	1530.5	1476.5	1415.4	1254.4	993.7	726.3	439.0	151.8	439.0	726.3	993.7
42.5°	1514.1	1452.4	1381.1	1214.0	951.0	685.8	413.9	142.0	413.9	685.8	951.0
45°	1480.8	1410.1	1326.2	1149.8	880.8	618.0	373.6	129.3	373.6	618.0	880.8
47.5°	1433.6	1361.2	1272.2	1087.1	805.9	541.9	329.6	117.4	329.6	541.9	805.9
50°	1391.4	1321.2	1233.7	1045.0	755.0	490.1	300.4	110.8	300.4	490.1	755.0
52.5°	1341.8	1275.8	1193.4	1003.2	705.2	439.8	272.0	104.2	272.0	439.8	705.2
55°	1255.1	1197.5	1125.4	937.1	632.6	370.0	233.2	96.4	233.2	370.0	632.6
57.5°	1159.2	1110.2	1048.7	866.8	564.5	310.1	199.8	89.5	199.8	310.1	564.5
60°	1090.3	1045.6	990.0	815.4	521.8	277.7	181.9	86.2	181.9	277.7	521.8
62.5°	1017.9	976.7	925.5	759.6	479.1	247.9	164.6	81.2	164.6	247.9	479.1
65°	900.4	866.5	823.6	674.5	419.2	210.9	143.4	75.9	143.4	210.9	419.2
67.5°	754.9	738.3	711.7	587.0	364.4	183.0	125.8	68.5	125.8	183.0	364.4
70°	638.5	641.5	632.4	528.9	331.0	169.4	116.5	63.6	116.5	169.4	331.0
72.5°	487.0	520.6	540.6	465.2	294.3	154.4	107.4	60.3	107.4	154.4	294.3
75°	230.2	295.4	383.0	362.9	235.3	129.9	91.6	53.3	91.6	129.9	235.3
77.5°	176.8	211.2	257.5	242.3	165.5	100.8	72.1	43.5	72.1	100.8	165.5
80°	143.8	145.0	146.8	134.5	108.1	82.5	59.7	36.9	59.7	82.5	108.1
82.5°	105.5	104.5	102.7	94.4	79.6	64.3	47.3	30.4	47.3	64.3	79.6
85°	34.4	40.3	47.6	49.0	44.5	38.5	28.5	18.5	28.5	38.5	44.5
87.5°	8.2	8.2	8.2	9.7	12.6	13.9	10.2	6.6	10.2	13.9	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7	426.7
2.5°	456.8	466.3	476.5	485.3	489.7	494.0	489.7	485.3	476.5	466.3	456.8
5°	552.6	602.3	657.9	705.5	729.2	752.9	729.2	705.5	657.9	602.3	552.6
7.5°	766.1	910.0	1059.2	1182.9	1230.3	1277.7	1230.3	1182.9	1059.2	910.0	766.1
10°	979.3	1164.4	1293.9	1397.4	1422.9	1448.4	1422.9	1397.4	1293.9	1164.4	979.3
12.5°	1118.4	1310.8	1401.7	1476.3	1502.6	1528.9	1502.6	1476.3	1401.7	1310.8	1118.4
15°	1242.4	1440.2	1514.1	1576.8	1606.0	1635.1	1606.0	1576.8	1514.1	1440.2	1242.4
17.5°	1310.9	1503.9	1577.0	1635.8	1651.7	1667.5	1651.7	1635.8	1577.0	1503.9	1310.9
20°	1350.9	1533.2	1596.1	1645.8	1655.9	1665.9	1655.9	1645.8	1596.1	1533.2	1350.9
22.5°	1379.9	1550.2	1597.8	1636.2	1646.9	1657.7	1646.9	1636.2	1597.8	1550.2	1379.9
25°	1408.5	1564.0	1594.1	1618.5	1625.8	1633.1	1625.8	1618.5	1594.1	1564.0	1408.5
27.5°	1403.9	1549.0	1568.7	1585.2	1592.3	1599.4	1592.3	1585.2	1568.7	1549.0	1403.9
30°	1391.7	1531.6	1546.2	1559.7	1569.7	1579.7	1569.7	1559.7	1546.2	1531.6	1391.7
32.5°	1372.9	1509.9	1523.8	1539.6	1561.3	1583.0	1561.3	1539.6	1523.8	1509.9	1372.9
35°	1337.9	1477.8	1499.7	1526.2	1566.3	1606.4	1566.3	1526.2	1499.7	1477.8	1337.9
37.5°	1289.6	1442.2	1488.0	1532.0	1570.6	1609.3	1570.6	1532.0	1488.0	1442.2	1289.6
40°	1254.4	1415.4	1476.5	1530.5	1563.3	1596.1	1563.3	1530.5	1476.5	1415.4	1254.4
42.5°	1214.0	1381.1	1452.4	1514.1	1546.9	1579.7	1546.9	1514.1	1452.4	1381.1	1214.0
45°	1149.8	1326.2	1410.1	1480.8	1511.8	1542.8	1511.8	1480.8	1410.1	1326.2	1149.8
47.5°	1087.1	1272.2	1361.2	1433.6	1456.2	1478.8	1456.2	1433.6	1361.2	1272.2	1087.1
50°	1045.0	1233.7	1321.2	1391.4	1409.7	1427.9	1409.7	1391.4	1321.2	1233.7	1045.0
52.5°	1003.2	1193.4	1275.8	1341.8	1358.6	1375.4	1358.6	1341.8	1275.8	1193.4	1003.2
55°	937.1	1125.4	1197.5	1255.1	1269.7	1284.3	1269.7	1255.1	1197.5	1125.4	937.1
57.5°	866.8	1048.7	1110.2	1159.2	1171.1	1183.0	1171.1	1159.2	1110.2	1048.7	866.8
60°	815.4	990.0	1045.6	1090.3	1102.2	1114.0	1102.2	1090.3	1045.6	990.0	815.4
62.5°	759.6	925.5	976.7	1017.9	1029.0	1040.2	1029.0	1017.9	976.7	925.5	759.6
65°	674.5	823.6	866.5	900.4	907.7	915.0	907.7	900.4	866.5	823.6	674.5
67.5°	587.0	711.7	738.3	754.9	741.2	727.5	741.2	754.9	738.3	711.7	587.0
70°	528.9	632.4	641.5	638.5	599.3	560.1	599.3	638.5	641.5	632.4	528.9
72.5°	465.2	540.6	520.6	487.0	412.7	338.5	412.7	487.0	520.6	540.6	465.2
75°	362.9	383.0	295.4	230.2	232.1	233.9	232.1	230.2	295.4	383.0	362.9
77.5°	242.3	257.5	211.2	176.8	178.5	180.1	178.5	176.8	211.2	257.5	242.3
80°	134.5	146.8	145.0	143.8	144.8	145.7	144.8	143.8	145.0	146.8	134.5
82.5°	94.4	102.7	104.5	105.5	104.3	103.0	104.3	105.5	104.5	102.7	94.4
85°	49.0	47.6	40.3	34.4	32.6	30.8	32.6	34.4	40.3	47.6	49.0
87.5°	9.7	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1435900

CATALOG NUMBER: SQ2W-FB-0U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	426.7	426.7	426.7	426.7
2.5°	448.1	439.5	431.5	423.5
5°	508.8	469.1	441.8	414.4
7.5°	627.5	509.7	454.0	398.4
10°	738.6	538.7	461.2	383.7
12.5°	824.5	577.7	472.5	367.2
15°	920.5	641.5	491.0	340.6
17.5°	998.2	713.5	513.3	313.1
20°	1049.1	763.9	528.6	293.4
22.5°	1086.8	801.3	538.3	275.3
25°	1127.7	843.0	546.6	250.3
27.5°	1133.4	852.3	539.2	226.1
30°	1126.3	847.8	529.5	211.3
32.5°	1112.7	837.6	517.9	198.2
35°	1079.8	807.6	493.1	178.5
37.5°	1030.3	760.9	461.3	161.7
40°	993.7	726.3	439.0	151.8
42.5°	951.0	685.8	413.9	142.0
45°	880.8	618.0	373.6	129.3
47.5°	805.9	541.9	329.6	117.4
50°	755.0	490.1	300.4	110.8
52.5°	705.2	439.8	272.0	104.2
55°	632.6	370.0	233.2	96.4
57.5°	564.5	310.1	199.8	89.5
60°	521.8	277.7	181.9	86.2
62.5°	479.1	247.9	164.6	81.2
65°	419.2	210.9	143.4	75.9
67.5°	364.4	183.0	125.8	68.5
70°	331.0	169.4	116.5	63.6
72.5°	294.3	154.4	107.4	60.3
75°	235.3	129.9	91.6	53.3
77.5°	165.5	100.8	72.1	43.5
80°	108.1	82.5	59.7	36.9
82.5°	79.6	64.3	47.3	30.4
85°	44.5	38.5	28.5	18.5
87.5°	12.6	13.9	10.2	6.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1435900

CATALOG NUMBER: SQ2W-FB-0U-100D-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	16.64	18.33	17.01	18.64	18.96	26.24	27.92	26.60	28.24	28.55
	3H	17.64	19.17	18.02	19.49	19.85	27.91	29.43	28.28	29.75	30.11
	4H	18.08	19.51	18.47	19.86	20.23	28.12	29.55	28.52	29.90	30.28
	6H	18.37	19.70	18.78	20.07	20.46	28.24	29.57	28.65	29.93	30.32
	8H	18.49	19.76	18.91	20.15	20.54	28.28	29.55	28.70	29.94	30.33
	12H	18.56	19.78	18.99	20.16	20.59	28.28	29.50	28.71	29.88	30.31
4H	2H	21.46	22.89	21.86	23.24	23.62	26.70	28.14	27.10	28.48	28.86
	3H	22.66	23.86	23.07	24.26	24.66	28.66	29.87	29.07	30.26	30.66
	4H	22.98	24.07	23.41	24.48	24.91	28.92	30.01	29.35	30.42	30.85
	6H	23.16	24.11	23.62	24.55	25.00	29.10	30.05	29.55	30.49	30.94
	8H	23.22	24.11	23.68	24.55	25.01	29.17	30.05	29.63	30.49	30.96
	12H	23.27	24.06	23.75	24.54	25.00	29.19	29.98	29.67	30.46	30.93
8H	4H	24.24	25.13	24.70	25.57	26.03	29.08	29.97	29.54	30.41	30.87
	6H	24.54	25.27	25.03	25.76	26.23	29.32	30.05	29.81	30.54	31.01
	8H	24.65	25.30	25.16	25.81	26.29	29.42	30.08	29.93	30.58	31.07
	12H	24.73	25.31	25.24	25.80	26.36	29.46	30.04	29.97	30.53	31.09
12H	4H	24.31	25.10	24.79	25.58	26.04	29.07	29.87	29.55	30.34	30.81
	6H	24.66	25.31	25.16	25.82	26.30	29.31	29.97	29.82	30.47	30.96
	8H	24.83	25.41	25.34	25.90	26.46	29.45	30.03	29.96	30.52	31.08