

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427542

Luminaire Tested: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427542  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

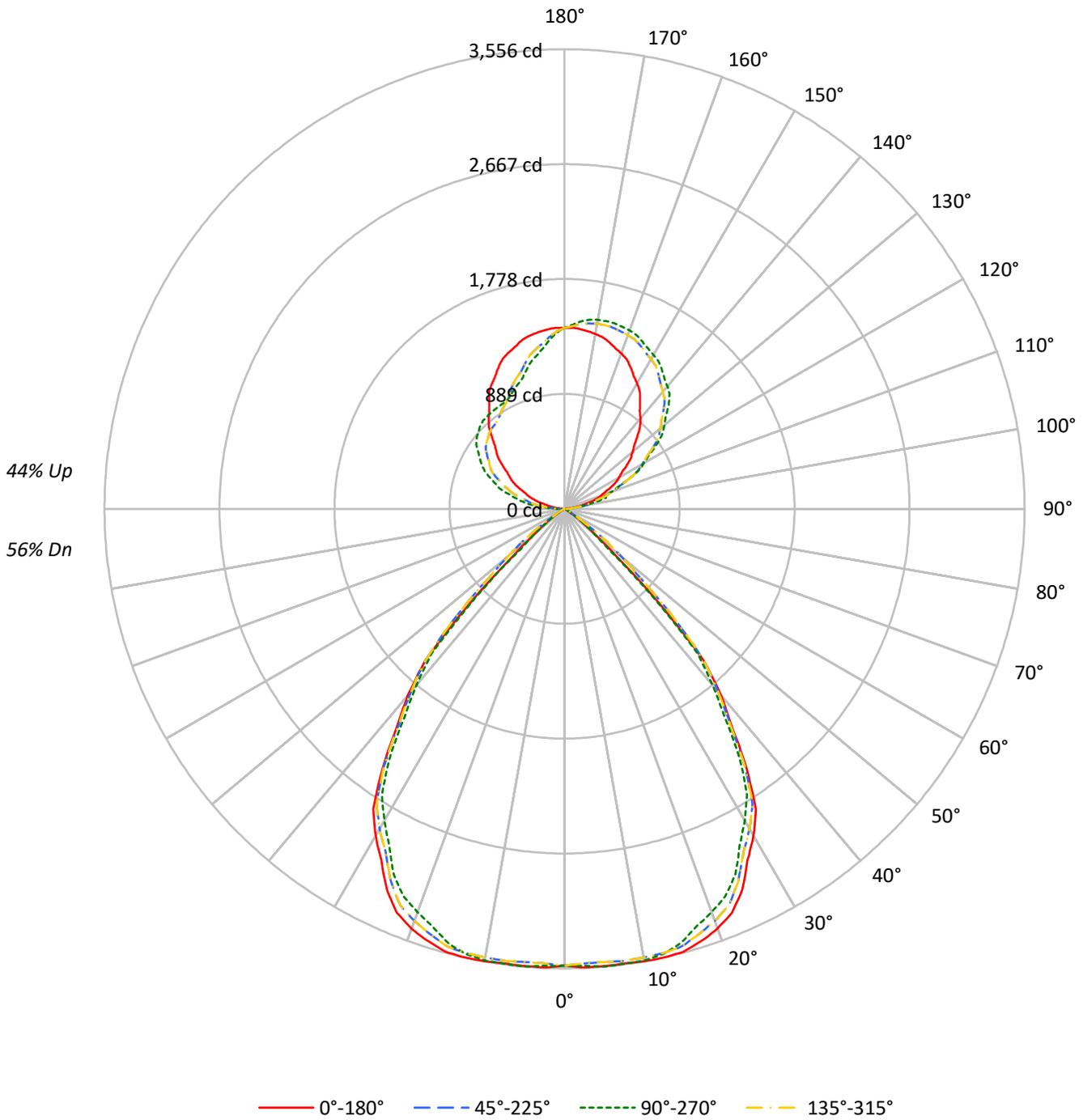
Lumens per Lamp: N/A  
Luminaire Lumens: 9380.7 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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

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CATALOG NUMBER: SQ2W-BBM-K-100U-125D-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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	101	98	95	92	94	91	89	86	79	78	76	68	67	66	58	57	57	52				
2	94	88	83	79	88	83	78	75	72	69	67	63	61	59	54	53	51	47				
3	88	80	74	69	82	75	70	66	66	62	59	58	55	53	50	48	47	43				
4	81	72	66	61	76	68	62	58	61	56	53	53	50	47	47	44	42	39				
5	76	66	59	54	71	62	56	51	55	51	47	49	46	43	43	41	39	36				
6	71	60	53	48	66	57	51	46	51	46	42	45	42	39	40	37	35	33				
7	66	55	48	43	62	52	46	42	47	42	38	42	38	35	37	34	32	30				
8	62	51	44	39	58	48	42	38	43	38	35	39	35	32	35	32	30	27				
9	58	47	40	35	54	45	38	34	40	35	32	36	32	30	32	29	27	25				
10	54	43	37	32	51	41	35	31	37	33	29	34	30	27	30	27	25	23				

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

	0°	90°	180°	270°
0°	57087	57087	57087	57087
5°	57536	57622	57536	57622
10°	58258	58171	58258	58171
15°	59309	58127	59309	58127
20°	59384	57074	59384	57074
25°	57917	55648	57917	55648
30°	54444	51905	54444	51905
35°	48321	46508	48321	46508
40°	39628	37504	39628	37504
45°	23626	22173	23626	22173
50°	7375	6975	7375	6975
55°	2790	2790	2790	2790
60°	171	58	171	58
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 27660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.1	3.6
10°-20°	990.3	10.6
20°-30°	1456.9	15.5
30°-40°	1489.1	15.9
40°-50°	857.8	9.1
50°-60°	147.6	1.6
60°-70°	5.3	0.1
70°-80°	0.0	0.0
80°-90°	7.4	0.1
90°-100°	111.5	1.2
100°-110°	325.1	3.5
110°-120°	530.5	5.7
120°-130°	673.2	7.2
130°-140°	720.3	7.7
140°-150°	672.6	7.2
150°-160°	553.5	5.9
160°-170°	371.2	4.0
170°-180°	131.8	1.4
0°-30°	2785.3	29.7
0°-40°	4274.4	45.6
0°-60°	5279.9	56.3
0°-90°	5292.6	56.4
90°-120°	967.1	10.3
90°-150°	3033.2	32.3
90°-180°	4090.0	43.6
0°-180°	9380.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3536	3536	3536	3536	3536	
5°	3550	3555	3550	3555	3550	339
15°	3548	3478	3548	3478	3548	999
25°	3251	3124	3251	3124	3251	1483
35°	2452	2360	2452	2360	2452	1514
45°	1035	971	1035	971	1035	801
55°	99	99	99	99	99	105
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	4	31	4	61	4	3
95°	44	32	44	191	44	53
105°	207	331	207	456	207	220
115°	396	549	396	676	396	390
125°	586	870	586	829	586	524
135°	796	1139	796	918	796	616
145°	1017	1313	1017	938	1017	636
155°	1208	1426	1208	973	1208	555
165°	1336	1487	1336	1120	1336	376
175°	1396	1456	1396	1314	1396	132
180°	1401	1401	1401	1401	1401	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8
2.5°	3551.4	3547.0	3542.6	3532.1	3519.5	3520.4	3534.9	3545.0	3541.8	3538.7	3541.8
5°	3550.0	3546.1	3542.1	3531.1	3517.8	3521.7	3542.9	3558.4	3556.9	3555.3	3556.9
7.5°	3547.9	3545.2	3542.5	3534.8	3525.3	3529.4	3546.8	3558.9	3555.0	3551.0	3555.0
10°	3553.5	3552.7	3552.0	3540.0	3524.2	3525.4	3543.5	3556.1	3552.1	3548.2	3552.1
12.5°	3556.4	3561.2	3566.1	3548.9	3524.4	3519.3	3533.6	3542.6	3535.5	3528.4	3535.5
15°	3548.2	3561.6	3574.9	3550.6	3513.6	3496.3	3498.7	3497.9	3487.7	3477.5	3487.7
17.5°	3508.6	3527.5	3546.3	3514.1	3464.9	3436.0	3427.4	3417.2	3402.8	3388.3	3402.8
20°	3456.2	3478.3	3500.3	3465.1	3410.8	3376.3	3361.3	3347.0	3334.4	3321.8	3334.4
22.5°	3382.7	3402.8	3422.9	3389.1	3337.4	3302.2	3283.5	3266.9	3256.9	3246.8	3256.9
25°	3251.1	3264.4	3277.8	3243.4	3193.1	3160.9	3146.7	3134.7	3129.2	3123.7	3129.2
27.5°	3064.6	3068.4	3072.2	3044.8	3007.1	2979.4	2961.8	2946.8	2939.8	2932.7	2939.8
30°	2920.3	2920.3	2920.3	2899.1	2870.8	2847.2	2828.3	2810.8	2797.5	2784.1	2797.5
32.5°	2751.9	2750.0	2748.1	2732.6	2712.4	2692.0	2671.2	2652.3	2639.0	2625.6	2639.0
35°	2451.6	2460.2	2468.9	2458.0	2440.8	2421.9	2401.4	2383.2	2371.4	2359.6	2371.4
37.5°	2126.5	2129.8	2133.1	2124.1	2111.0	2093.5	2071.5	2052.5	2042.6	2032.7	2042.6
40°	1880.2	1881.0	1881.8	1870.8	1855.9	1840.5	1824.8	1809.3	1794.4	1779.4	1794.4
42.5°	1593.0	1608.9	1624.7	1618.0	1603.7	1583.9	1558.8	1538.4	1532.3	1526.1	1532.3
45°	1034.7	1104.7	1174.7	1200.4	1211.4	1202.8	1174.5	1133.0	1052.0	971.1	1052.0
47.5°	520.0	607.1	694.2	754.6	806.0	791.4	710.7	628.8	543.1	457.4	543.1
50°	293.6	345.5	397.4	478.2	568.6	553.6	433.4	335.9	306.8	277.7	306.8
52.5°	196.0	218.9	241.9	306.9	386.0	380.8	291.4	220.2	203.6	187.1	203.6
55°	99.1	105.3	111.6	140.3	176.5	175.7	138.0	108.5	103.8	99.1	103.8
57.5°	33.6	42.1	50.6	63.3	77.5	77.9	64.5	52.6	44.8	37.1	44.8
60°	5.3	13.2	21.0	31.2	42.3	41.1	27.7	15.9	8.8	1.8	8.8
62.5°	1.1	3.3	5.5	13.8	24.2	23.9	13.1	4.4	2.4	0.4	2.4
65°	0.0	0.0	0.0	0.6	1.4	1.4	0.6	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	2.0	3.4	4.5	5.4	5.7	5.7	5.9	6.2	6.2	6.2
90°	4.2	9.9	17.0	22.6	26.9	28.3	28.3	29.7	31.1	31.1	31.1
92.5°	15.6	24.6	24.9	24.9	30.3	32.8	35.1	35.4	36.8	36.8	36.8
95°	43.9	48.1	72.2	70.7	48.1	38.2	32.5	32.5	32.5	32.5	32.5
97.5°	83.8	90.0	93.9	125.9	133.0	128.5	104.7	88.0	78.7	74.4	78.7
100°	118.8	121.7	130.2	131.6	166.9	200.9	183.9	162.7	155.6	151.4	155.6
102.5°	153.9	155.6	168.6	174.6	182.8	202.0	260.9	254.4	249.6	248.7	249.6
105°	206.6	208.0	232.0	243.3	249.0	249.0	247.6	275.9	321.2	331.1	321.2
107.5°	262.9	269.4	297.7	328.0	334.5	336.2	328.8	324.6	322.9	324.0	322.9
110°	301.4	311.3	345.2	383.4	393.3	396.1	393.3	389.1	386.2	386.2	386.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	338.7	353.1	391.6	435.5	452.2	460.7	454.4	451.3	448.5	450.8	448.5
115°	396.1	417.4	468.3	513.6	547.5	551.8	550.4	550.4	548.9	548.9	548.9
117.5°	449.3	483.3	540.5	593.1	632.4	643.7	649.4	647.7	646.0	648.8	646.0
120°	486.7	526.3	591.4	650.8	689.0	706.0	711.6	708.8	711.6	708.8	711.6
122.5°	526.3	575.0	638.9	700.6	745.6	764.8	771.6	772.2	772.8	771.1	772.8
125°	585.7	645.2	720.1	783.8	830.5	853.1	858.8	860.2	863.0	870.1	863.0
127.5°	645.7	713.1	795.4	856.8	904.6	932.1	940.8	944.0	949.9	953.0	949.9
130°	687.6	764.0	847.5	905.5	952.2	981.9	997.4	1001.7	1008.8	1007.3	1008.8
132.5°	731.7	811.5	896.1	956.4	999.7	1031.7	1045.0	1057.1	1059.7	1061.7	1059.7
135°	796.5	882.8	967.7	1027.2	1068.2	1099.3	1116.3	1127.6	1134.7	1138.9	1134.7
137.5°	864.7	955.8	1037.3	1090.3	1131.6	1158.4	1177.7	1189.6	1196.9	1200.3	1196.9
140°	911.1	998.9	1078.1	1133.3	1170.0	1196.9	1213.9	1228.1	1236.5	1236.5	1236.5
142.5°	955.3	1041.9	1118.8	1174.0	1206.3	1230.9	1249.0	1259.7	1269.4	1269.4	1269.4
145°	1017.2	1103.6	1174.3	1229.5	1256.4	1279.0	1298.8	1307.3	1312.9	1312.9	1312.9
147.5°	1082.0	1158.4	1223.0	1275.9	1298.5	1325.1	1340.7	1347.5	1354.5	1351.4	1354.5
150°	1120.5	1191.3	1253.5	1303.0	1325.7	1351.1	1366.7	1372.4	1379.4	1375.2	1379.4
152.5°	1157.9	1225.2	1281.8	1327.9	1347.2	1372.6	1390.5	1396.1	1400.9	1397.8	1400.9
155°	1208.2	1267.7	1320.0	1362.5	1379.4	1403.5	1420.5	1427.5	1433.2	1426.1	1433.2
157.5°	1253.2	1304.5	1350.0	1389.1	1407.2	1427.8	1443.7	1452.4	1458.1	1455.0	1458.1
160°	1280.4	1327.1	1368.1	1404.9	1421.9	1440.3	1457.3	1467.2	1472.8	1468.6	1472.8
162.5°	1303.0	1345.2	1384.0	1417.4	1432.1	1448.2	1468.6	1477.3	1483.0	1477.6	1483.0
165°	1335.6	1369.5	1403.5	1431.8	1444.5	1457.3	1478.5	1488.4	1492.6	1487.0	1492.6
167.5°	1360.2	1386.2	1413.7	1438.0	1447.4	1459.8	1481.0	1489.2	1494.6	1487.5	1494.6
170°	1373.8	1396.4	1420.5	1440.3	1447.4	1458.7	1479.9	1487.0	1491.2	1484.1	1491.2
172.5°	1385.1	1402.1	1421.6	1439.1	1442.8	1451.9	1472.0	1479.0	1482.2	1476.2	1482.2
175°	1396.4	1406.3	1420.5	1431.8	1430.4	1436.0	1453.0	1458.7	1464.3	1455.8	1464.3
177.5°	1401.8	1406.3	1410.8	1417.6	1413.1	1413.1	1425.6	1429.0	1430.1	1425.6	1430.1
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8
2.5°	3545.0	3534.9	3520.4	3519.5	3532.1	3542.6	3547.0	3551.4	3547.0	3542.6	3532.1
5°	3558.4	3542.9	3521.7	3517.8	3531.1	3542.1	3546.1	3550.0	3546.1	3542.1	3531.1
7.5°	3558.9	3546.8	3529.4	3525.3	3534.8	3542.5	3545.2	3547.9	3545.2	3542.5	3534.8
10°	3556.1	3543.5	3525.4	3524.2	3540.0	3552.0	3552.7	3553.5	3552.7	3552.0	3540.0
12.5°	3542.6	3533.6	3519.3	3524.4	3548.9	3566.1	3561.2	3556.4	3561.2	3566.1	3548.9
15°	3497.9	3498.7	3496.3	3513.6	3550.6	3574.9	3561.6	3548.2	3561.6	3574.9	3550.6
17.5°	3417.2	3427.4	3436.0	3464.9	3514.1	3546.3	3527.5	3508.6	3527.5	3546.3	3514.1
20°	3347.0	3361.3	3376.3	3410.8	3465.1	3500.3	3478.3	3456.2	3478.3	3500.3	3465.1
22.5°	3266.9	3283.5	3302.2	3337.4	3389.1	3422.9	3402.8	3382.7	3402.8	3422.9	3389.1
25°	3134.7	3146.7	3160.9	3193.1	3243.4	3277.8	3264.4	3251.1	3264.4	3277.8	3243.4
27.5°	2946.8	2961.8	2979.4	3007.1	3044.8	3072.2	3068.4	3064.6	3068.4	3072.2	3044.8
30°	2810.8	2828.3	2847.2	2870.8	2899.1	2920.3	2920.3	2920.3	2920.3	2920.3	2899.1
32.5°	2652.3	2671.2	2692.0	2712.4	2732.6	2748.1	2750.0	2751.9	2750.0	2748.1	2732.6
35°	2383.2	2401.4	2421.9	2440.8	2458.0	2468.9	2460.2	2451.6	2460.2	2468.9	2458.0
37.5°	2052.5	2071.5	2093.5	2111.0	2124.1	2133.1	2129.8	2126.5	2129.8	2133.1	2124.1
40°	1809.3	1824.8	1840.5	1855.9	1870.8	1881.8	1881.0	1880.2	1881.0	1881.8	1870.8
42.5°	1538.4	1558.8	1583.9	1603.7	1618.0	1624.7	1608.9	1593.0	1608.9	1624.7	1618.0
45°	1133.0	1174.5	1202.8	1211.4	1200.4	1174.7	1104.7	1034.7	1104.7	1174.7	1200.4
47.5°	628.8	710.7	791.4	806.0	754.6	694.2	607.1	520.0	607.1	694.2	754.6
50°	335.9	433.4	553.6	568.6	478.2	397.4	345.5	293.6	345.5	397.4	478.2
52.5°	220.2	291.4	380.8	386.0	306.9	241.9	218.9	196.0	218.9	241.9	306.9
55°	108.5	138.0	175.7	176.5	140.3	111.6	105.3	99.1	105.3	111.6	140.3
57.5°	52.6	64.5	77.9	77.5	63.3	50.6	42.1	33.6	42.1	50.6	63.3
60°	15.9	27.7	41.1	42.3	31.2	21.0	13.2	5.3	13.2	21.0	31.2
62.5°	4.4	13.1	23.9	24.2	13.8	5.5	3.3	1.1	3.3	5.5	13.8
65°	0.0	0.6	1.4	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	5.7	5.7	5.4	4.5	3.4	2.0	0.8	2.0	3.1	5.1
90°	29.7	28.3	28.3	26.9	22.6	17.0	9.9	4.2	9.9	15.6	25.5
92.5°	35.4	35.1	32.8	30.3	24.9	24.9	24.6	15.6	26.9	38.2	54.9
95°	32.5	32.5	38.2	48.1	70.7	72.2	48.1	43.9	62.3	87.7	110.4
97.5°	88.0	104.7	128.5	133.0	125.9	93.9	90.0	83.8	114.0	139.2	175.7
100°	162.7	183.9	200.9	166.9	131.6	130.2	121.7	118.8	151.4	175.4	210.8
102.5°	254.4	260.9	202.0	182.8	174.6	168.6	155.6	153.9	186.5	219.6	249.3
105°	275.9	247.6	249.0	249.0	243.3	232.0	208.0	206.6	243.3	281.5	318.3
107.5°	324.6	328.8	336.2	334.5	328.0	297.7	269.4	262.9	296.0	341.8	382.3
110°	389.1	393.3	396.1	393.3	383.4	345.2	311.3	301.4	331.1	379.2	423.0



TEST NUMBER: P1427542

CATALOG NUMBER: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	451.3	454.4	460.7	452.2	435.5	391.6	353.1	338.7	368.4	417.7	462.6
115°	550.4	550.4	551.8	547.5	513.6	468.3	417.4	396.1	421.6	466.9	516.4
117.5°	647.7	649.4	643.7	632.4	593.1	540.5	483.3	449.3	469.4	517.3	568.2
120°	708.8	711.6	706.0	689.0	650.8	591.4	526.3	486.7	502.3	548.9	599.9
122.5°	772.2	771.6	764.8	745.6	700.6	638.9	575.0	526.3	532.8	576.1	625.9
125°	860.2	858.8	853.1	830.5	783.8	720.1	645.2	585.7	577.2	614.0	665.0
127.5°	944.0	940.8	932.1	904.6	856.8	795.4	713.1	645.7	626.8	650.0	696.7
130°	1001.7	997.4	981.9	952.2	905.5	847.5	764.0	687.6	660.7	674.9	715.9
132.5°	1057.1	1045.0	1031.7	999.7	956.4	896.1	811.5	731.7	694.7	700.9	732.9
135°	1127.6	1116.3	1099.3	1068.2	1027.2	967.7	882.8	796.5	745.6	739.9	758.3
137.5°	1189.6	1177.7	1158.4	1131.6	1090.3	1037.3	955.8	864.7	800.5	781.5	788.6
140°	1228.1	1213.9	1196.9	1170.0	1133.3	1078.1	998.9	911.1	839.0	812.1	807.9
142.5°	1259.7	1249.0	1230.9	1206.3	1174.0	1118.8	1041.9	955.3	878.6	843.8	833.9
145°	1307.3	1298.8	1279.0	1256.4	1229.5	1174.3	1103.6	1017.2	940.8	895.6	874.4
147.5°	1347.5	1340.7	1325.1	1298.5	1275.9	1223.0	1158.4	1082.0	1003.7	947.6	920.2
150°	1372.4	1366.7	1351.1	1325.7	1303.0	1253.5	1191.3	1120.5	1045.5	986.1	950.8
152.5°	1396.1	1390.5	1372.6	1347.2	1327.9	1281.8	1225.2	1157.9	1081.8	1022.3	985.8
155°	1427.5	1420.5	1403.5	1379.4	1362.5	1320.0	1267.7	1208.2	1143.2	1080.9	1039.9
157.5°	1452.4	1443.7	1427.8	1407.2	1389.1	1350.0	1304.5	1253.2	1196.4	1136.9	1095.1
160°	1467.2	1457.3	1440.3	1421.9	1404.9	1368.1	1327.1	1280.4	1228.1	1174.3	1129.0
162.5°	1477.3	1468.6	1448.2	1432.1	1417.4	1384.0	1345.2	1303.0	1256.4	1209.4	1167.5
165°	1488.4	1478.5	1457.3	1444.5	1431.8	1403.5	1369.5	1335.6	1296.0	1257.8	1223.8
167.5°	1489.2	1481.0	1459.8	1447.4	1438.0	1413.7	1386.2	1360.2	1329.4	1299.4	1271.1
170°	1487.0	1479.9	1458.7	1447.4	1440.3	1420.5	1396.4	1373.8	1349.7	1324.3	1301.6
172.5°	1479.0	1472.0	1451.9	1442.8	1439.1	1421.6	1402.1	1385.1	1364.4	1345.8	1327.7
175°	1458.7	1453.0	1436.0	1430.4	1431.8	1420.5	1406.3	1396.4	1383.7	1372.4	1362.5
177.5°	1429.0	1425.6	1413.1	1413.1	1417.6	1410.8	1406.3	1401.8	1396.1	1392.7	1389.3
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427542

CATALOG NUMBER: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8
2.5°	3519.5	3520.4	3534.9	3545.0	3541.8	3538.7	3541.8	3545.0	3534.9	3520.4	3519.5
5°	3517.8	3521.7	3542.9	3558.4	3556.9	3555.3	3556.9	3558.4	3542.9	3521.7	3517.8
7.5°	3525.3	3529.4	3546.8	3558.9	3555.0	3551.0	3555.0	3558.9	3546.8	3529.4	3525.3
10°	3524.2	3525.4	3543.5	3556.1	3552.1	3548.2	3552.1	3556.1	3543.5	3525.4	3524.2
12.5°	3524.4	3519.3	3533.6	3542.6	3535.5	3528.4	3535.5	3542.6	3533.6	3519.3	3524.4
15°	3513.6	3496.3	3498.7	3497.9	3487.7	3477.5	3487.7	3497.9	3498.7	3496.3	3513.6
17.5°	3464.9	3436.0	3427.4	3417.2	3402.8	3388.3	3402.8	3417.2	3427.4	3436.0	3464.9
20°	3410.8	3376.3	3361.3	3347.0	3334.4	3321.8	3334.4	3347.0	3361.3	3376.3	3410.8
22.5°	3337.4	3302.2	3283.5	3266.9	3256.9	3246.8	3256.9	3266.9	3283.5	3302.2	3337.4
25°	3193.1	3160.9	3146.7	3134.7	3129.2	3123.7	3129.2	3134.7	3146.7	3160.9	3193.1
27.5°	3007.1	2979.4	2961.8	2946.8	2939.8	2932.7	2939.8	2946.8	2961.8	2979.4	3007.1
30°	2870.8	2847.2	2828.3	2810.8	2797.5	2784.1	2797.5	2810.8	2828.3	2847.2	2870.8
32.5°	2712.4	2692.0	2671.2	2652.3	2639.0	2625.6	2639.0	2652.3	2671.2	2692.0	2712.4
35°	2440.8	2421.9	2401.4	2383.2	2371.4	2359.6	2371.4	2383.2	2401.4	2421.9	2440.8
37.5°	2111.0	2093.5	2071.5	2052.5	2042.6	2032.7	2042.6	2052.5	2071.5	2093.5	2111.0
40°	1855.9	1840.5	1824.8	1809.3	1794.4	1779.4	1794.4	1809.3	1824.8	1840.5	1855.9
42.5°	1603.7	1583.9	1558.8	1538.4	1532.3	1526.1	1532.3	1538.4	1558.8	1583.9	1603.7
45°	1211.4	1202.8	1174.5	1133.0	1052.0	971.1	1052.0	1133.0	1174.5	1202.8	1211.4
47.5°	806.0	791.4	710.7	628.8	543.1	457.4	543.1	628.8	710.7	791.4	806.0
50°	568.6	553.6	433.4	335.9	306.8	277.7	306.8	335.9	433.4	553.6	568.6
52.5°	386.0	380.8	291.4	220.2	203.6	187.1	203.6	220.2	291.4	380.8	386.0
55°	176.5	175.7	138.0	108.5	103.8	99.1	103.8	108.5	138.0	175.7	176.5
57.5°	77.5	77.9	64.5	52.6	44.8	37.1	44.8	52.6	64.5	77.9	77.5
60°	42.3	41.1	27.7	15.9	8.8	1.8	8.8	15.9	27.7	41.1	42.3
62.5°	24.2	23.9	13.1	4.4	2.4	0.4	2.4	4.4	13.1	23.9	24.2
65°	1.4	1.4	0.6	0.0	0.0	0.0	0.0	0.6	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	8.5	10.5	11.6	12.7	12.2	12.7	11.6	10.5	8.5	6.5
90°	32.5	42.4	52.3	58.0	63.7	60.8	63.7	58.0	52.3	42.4	32.5
92.5°	65.4	82.1	94.2	104.4	108.9	108.4	108.9	104.4	94.2	82.1	65.4
95°	131.6	151.4	171.2	185.3	193.8	191.0	193.8	185.3	171.2	151.4	131.6
97.5°	202.9	229.5	251.6	264.9	273.3	279.0	273.3	264.9	251.6	229.5	202.9
100°	250.4	275.9	301.4	316.9	331.1	336.7	331.1	316.9	301.4	275.9	250.4
102.5°	288.9	322.3	350.0	366.7	378.6	384.3	378.6	366.7	350.0	322.3	288.9
105°	352.3	387.7	417.4	438.6	451.3	455.6	451.3	438.6	417.4	387.7	352.3
107.5°	415.7	452.2	479.6	503.1	518.7	527.7	518.7	503.1	479.6	452.2	415.7
110°	465.5	495.2	524.9	546.1	561.7	567.3	561.7	524.9	495.2	465.5	465.5



TEST NUMBER: P1427542

CATALOG NUMBER: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	507.4	540.5	570.2	591.4	609.2	617.1	609.2	591.4	570.2	540.5	507.4
115°	565.9	609.8	636.7	656.5	669.2	676.3	669.2	656.5	636.7	609.8	565.9
117.5°	614.6	660.4	689.9	705.1	711.1	716.2	711.1	705.1	689.9	660.4	614.6
120°	645.2	687.6	721.6	741.4	748.4	751.3	748.4	741.4	721.6	687.6	645.2
122.5°	673.4	713.6	746.5	770.8	782.4	785.2	782.4	770.8	746.5	713.6	673.4
125°	713.1	751.3	785.2	809.3	822.0	829.1	822.0	809.3	785.2	751.3	713.1
127.5°	747.6	788.9	820.0	841.8	854.3	859.9	854.3	841.8	820.0	788.9	747.6
130°	766.8	809.3	840.4	864.4	875.8	881.4	875.8	864.4	840.4	809.3	766.8
132.5°	781.5	826.2	858.5	880.3	892.7	898.4	892.7	880.3	858.5	826.2	781.5
135°	799.4	846.1	880.0	901.2	912.6	918.2	912.6	901.2	880.0	846.1	799.4
137.5°	814.9	857.4	892.7	915.1	925.3	929.0	925.3	915.1	892.7	857.4	814.9
140°	826.2	863.0	898.4	919.6	930.9	932.4	930.9	919.6	898.4	863.0	826.2
142.5°	841.0	869.8	900.7	921.9	933.2	935.8	933.2	921.9	900.7	869.8	841.0
145°	867.3	884.3	905.5	925.3	935.2	938.0	935.2	925.3	905.5	884.3	867.3
147.5°	900.4	905.8	916.8	929.8	939.4	941.4	939.4	929.8	916.8	905.8	900.4
150°	925.3	923.9	928.1	936.6	945.1	943.7	945.1	936.6	928.1	923.9	925.3
152.5°	953.6	945.4	945.1	949.1	953.0	952.7	953.0	949.1	945.1	945.4	953.6
155°	1001.7	986.1	977.6	974.8	974.8	973.4	974.8	974.8	977.6	986.1	1001.7
157.5°	1054.6	1032.8	1020.1	1013.3	1011.3	1008.2	1011.3	1013.3	1020.1	1032.8	1054.6
160°	1090.8	1066.8	1054.0	1042.7	1038.5	1034.2	1038.5	1042.7	1054.0	1066.8	1090.8
162.5°	1124.8	1101.9	1088.0	1077.8	1073.6	1067.1	1073.6	1077.8	1088.0	1101.9	1124.8
165°	1180.0	1155.9	1140.3	1131.8	1126.2	1120.5	1126.2	1131.8	1140.3	1155.9	1180.0
167.5°	1235.1	1208.8	1198.6	1189.0	1183.6	1173.4	1183.6	1189.0	1198.6	1208.8	1235.1
170°	1269.1	1245.0	1239.4	1230.9	1221.0	1209.7	1221.0	1230.9	1239.4	1245.0	1269.1
172.5°	1298.5	1282.4	1276.7	1268.2	1265.1	1256.1	1265.1	1268.2	1276.7	1282.4	1298.5
175°	1341.2	1328.5	1328.5	1327.1	1322.8	1314.4	1322.8	1327.1	1328.5	1328.5	1341.2
177.5°	1376.9	1370.1	1374.6	1374.6	1373.5	1365.6	1373.5	1374.6	1374.6	1370.1	1376.9
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427542

CATALOG NUMBER: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	3535.8	3535.8	3535.8	3535.8
2.5°	3532.1	3542.6	3547.0	3551.4
5°	3531.1	3542.1	3546.1	3550.0
7.5°	3534.8	3542.5	3545.2	3547.9
10°	3540.0	3552.0	3552.7	3553.5
12.5°	3548.9	3566.1	3561.2	3556.4
15°	3550.6	3574.9	3561.6	3548.2
17.5°	3514.1	3546.3	3527.5	3508.6
20°	3465.1	3500.3	3478.3	3456.2
22.5°	3389.1	3422.9	3402.8	3382.7
25°	3243.4	3277.8	3264.4	3251.1
27.5°	3044.8	3072.2	3068.4	3064.6
30°	2899.1	2920.3	2920.3	2920.3
32.5°	2732.6	2748.1	2750.0	2751.9
35°	2458.0	2468.9	2460.2	2451.6
37.5°	2124.1	2133.1	2129.8	2126.5
40°	1870.8	1881.8	1881.0	1880.2
42.5°	1618.0	1624.7	1608.9	1593.0
45°	1200.4	1174.7	1104.7	1034.7
47.5°	754.6	694.2	607.1	520.0
50°	478.2	397.4	345.5	293.6
52.5°	306.9	241.9	218.9	196.0
55°	140.3	111.6	105.3	99.1
57.5°	63.3	50.6	42.1	33.6
60°	31.2	21.0	13.2	5.3
62.5°	13.8	5.5	3.3	1.1
65°	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	5.1	3.1	2.0	0.8
90°	25.5	15.6	9.9	4.2
92.5°	54.9	38.2	26.9	15.6
95°	110.4	87.7	62.3	43.9
97.5°	175.7	139.2	114.0	83.8
100°	210.8	175.4	151.4	118.8
102.5°	249.3	219.6	186.5	153.9
105°	318.3	281.5	243.3	206.6
107.5°	382.3	341.8	296.0	262.9
110°	423.0	379.2	331.1	301.4

TEST NUMBER: P1427542

CATALOG NUMBER: SQ2W-BBM-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	462.6	417.7	368.4	338.7
115°	516.4	466.9	421.6	396.1
117.5°	568.2	517.3	469.4	449.3
120°	599.9	548.9	502.3	486.7
122.5°	625.9	576.1	532.8	526.3
125°	665.0	614.0	577.2	585.7
127.5°	696.7	650.0	626.8	645.7
130°	715.9	674.9	660.7	687.6
132.5°	732.9	700.9	694.7	731.7
135°	758.3	739.9	745.6	796.5
137.5°	788.6	781.5	800.5	864.7
140°	807.9	812.1	839.0	911.1
142.5°	833.9	843.8	878.6	955.3
145°	874.4	895.6	940.8	1017.2
147.5°	920.2	947.6	1003.7	1082.0
150°	950.8	986.1	1045.5	1120.5
152.5°	985.8	1022.3	1081.8	1157.9
155°	1039.9	1080.9	1143.2	1208.2
157.5°	1095.1	1136.9	1196.4	1253.2
160°	1129.0	1174.3	1228.1	1280.4
162.5°	1167.5	1209.4	1256.4	1303.0
165°	1223.8	1257.8	1296.0	1335.6
167.5°	1271.1	1299.4	1329.4	1360.2
170°	1301.6	1324.3	1349.7	1373.8
172.5°	1327.7	1345.8	1364.4	1385.1
175°	1362.5	1372.4	1383.7	1396.4
177.5°	1389.3	1392.7	1396.1	1401.8
180°	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1427542  
 CATALOG NUMBER: SQ2W-BBM-K-100U-125D-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	0.27	1.01	1.21	1.93	3.13	0.50	1.24	1.44	2.16	3.35
	3H	0.08	0.73	1.03	1.67	2.88	0.31	0.96	1.26	1.90	3.11
	4H	0.00	0.59	0.94	1.53	2.75	0.20	0.81	1.17	1.76	2.98
	6H	0.00	0.43	0.84	1.37	2.61	0.09	0.65	1.07	1.60	2.84
	8H	0.00	0.34	0.78	1.30	2.53	0.03	0.56	1.01	1.53	2.76
	12H	0.00	0.25	0.73	1.20	2.46	0.00	0.48	0.95	1.43	2.69
4H	2H	0.00	0.60	0.95	1.54	2.76	0.21	0.82	1.18	1.76	2.99
	3H	0.00	0.29	0.76	1.26	2.50	0.01	0.51	0.99	1.49	2.72
	4H	0.00	0.13	0.65	1.09	2.36	0.00	0.35	0.88	1.32	2.58
	6H	0.00	0.00	0.56	0.94	2.20	0.00	0.18	0.78	1.17	2.43
	8H	0.00	0.00	0.49	0.84	2.12	0.00	0.09	0.72	1.07	2.34
	12H	0.00	0.00	0.44	0.75	2.03	0.00	0.00	0.66	0.98	2.26
8H	4H	0.00	0.00	0.49	0.84	2.12	0.00	0.09	0.72	1.07	2.34
	6H	0.00	0.00	0.39	0.70	1.97	0.00	0.00	0.62	0.93	2.20
	8H	0.00	0.00	0.34	0.59	1.88	0.00	0.00	0.57	0.82	2.11
	12H	0.00	0.00	0.27	0.48	1.82	0.00	0.00	0.50	0.71	2.05
12H	4H	0.00	0.00	0.44	0.75	2.03	0.00	0.00	0.66	0.98	2.26
	6H	0.00	0.00	0.34	0.59	1.88	0.00	0.00	0.57	0.82	2.11
	8H	0.00	0.00	0.27	0.48	1.82	0.00	0.00	0.50	0.71	2.05