

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: P1427597

Luminaire Tested: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427597  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

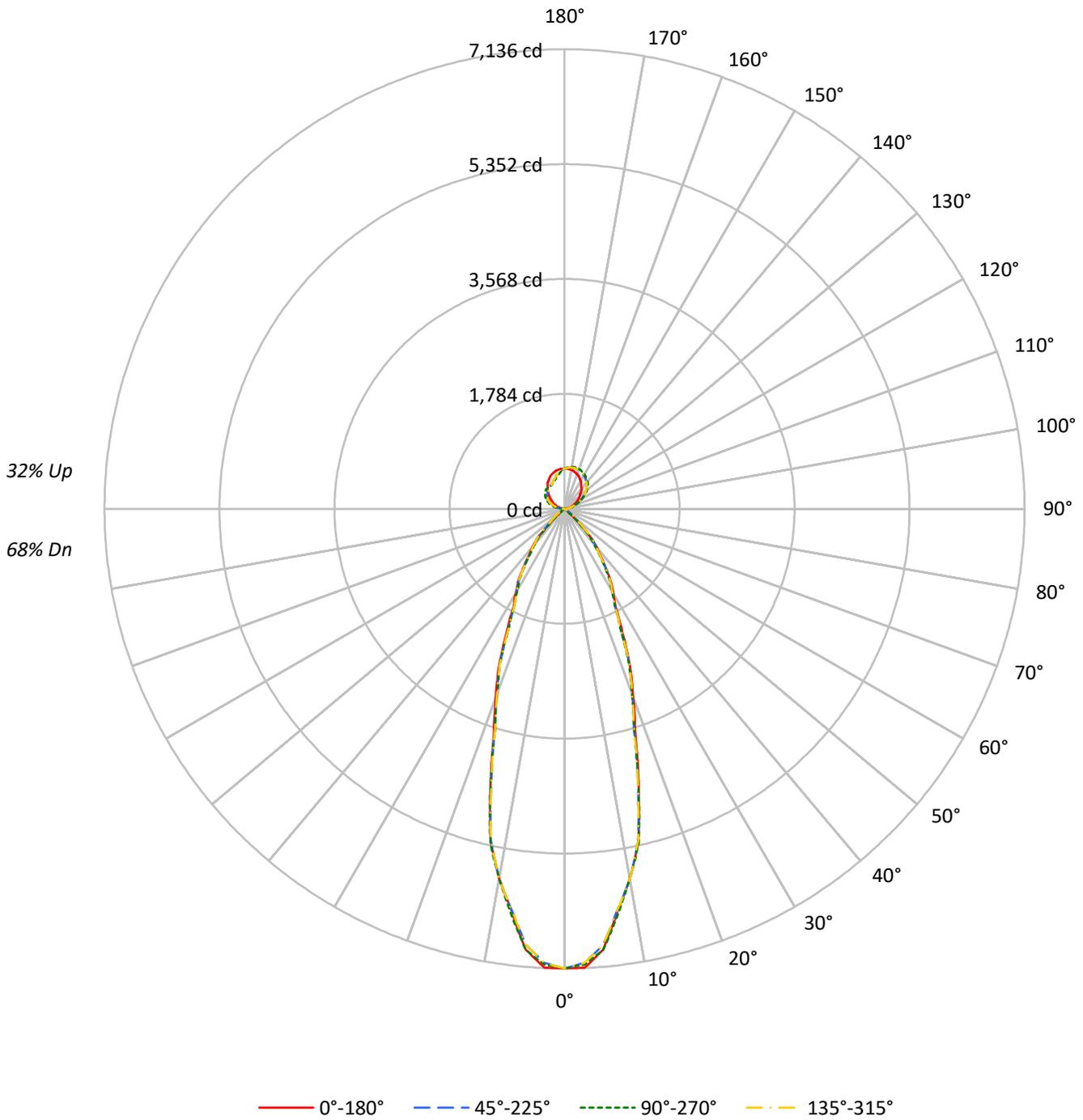
Lumens per Lamp: N/A  
Luminaire Lumens: 5688.1 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 53  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73	68
1	105	102	99	97	99	97	94	92	87	85	83	78	76	75	69	68	68	64
2	99	94	89	85	94	89	85	82	81	78	75	73	71	69	66	64	63	60
3	93	86	81	77	88	82	78	74	75	72	69	69	66	64	62	60	59	56
4	88	80	74	69	83	77	71	67	70	66	63	64	61	59	59	57	55	52
5	83	74	68	63	79	71	66	62	66	62	58	61	57	55	56	54	52	49
6	78	69	63	58	75	67	61	57	62	57	54	57	54	51	53	51	48	46
7	74	65	58	54	71	62	57	53	58	54	50	54	51	48	51	48	46	44
8	70	61	55	50	67	59	53	49	55	50	47	51	48	45	48	45	43	41
9	67	57	51	47	64	55	50	46	52	47	44	49	45	43	46	43	41	39
10	64	54	48	44	61	52	47	43	49	45	42	46	43	40	44	41	39	37

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

	0°	90°	180°	270°
0°	115219	115219	115219	115219
5°	111366	111430	111366	111430
10°	95576	95576	95576	95576
15°	74185	74013	74185	74013
20°	53540	52391	53540	52391
25°	37963	36520	37963	36520
30°	28245	27260	28245	27260
35°	21977	20964	21977	20964
40°	16263	14855	16263	14855
45°	8311	6695	8311	6695
50°	1808	1324	1808	1324
55°	507	397	507	397
60°	84	42	84	42
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: 10138 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.1	10.8
10°-20°	1216.6	21.4
20°-30°	981.4	17.3
30°-40°	681.8	12.0
40°-50°	314.9	5.5
50°-60°	44.1	0.8
60°-70°	1.5	0.0
70°-80°	0.0	0.0
80°-90°	3.3	0.1
90°-100°	49.8	0.9
100°-110°	145.3	2.6
110°-120°	237.1	4.2
120°-130°	300.9	5.3
130°-140°	322.0	5.7
140°-150°	300.7	5.3
150°-160°	247.4	4.3
160°-170°	165.9	2.9
170°-180°	58.9	1.0
0°-30°	2815.2	49.5
0°-40°	3497.0	61.5
0°-60°	3856.0	67.8
0°-90°	3860.8	67.9
90°-120°	432.3	7.6
90°-150°	1355.8	23.8
90°-180°	1828.0	32.1
0°-180°	5688.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7136	7136	7136	7136	7136	
5°	6871	6875	6871	6875	6871	618
15°	4438	4428	4438	4428	4438	1222
25°	2131	2050	2131	2050	2131	998
35°	1115	1064	1115	1064	1115	698
45°	364	293	364	293	364	294
55°	18	14	18	14	18	23
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	14	2	27	2	2
95°	20	14	20	85	20	24
105°	92	148	92	204	92	98
115°	177	245	177	302	177	175
125°	262	389	262	371	262	234
135°	356	509	356	410	356	275
145°	455	587	455	419	455	285
155°	540	638	540	435	540	248
165°	597	665	597	501	597	168
175°	624	651	624	588	624	59
180°	626	626	626	626	626	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3
2.5°	7132.2	7120.3	7108.4	7084.9	7057.5	7056.3	7081.5	7098.4	7090.6	7082.8	7090.6
5°	6871.4	6854.8	6838.2	6818.2	6797.1	6805.1	6842.3	6870.7	6873.0	6875.3	6873.0
7.5°	6295.8	6301.1	6306.5	6292.8	6272.6	6283.2	6324.3	6354.1	6349.6	6345.1	6349.6
10°	5829.7	5833.7	5837.7	5837.0	5834.7	5840.4	5854.1	5860.6	5845.1	5829.7	5845.1
12.5°	5289.6	5305.4	5321.3	5303.0	5273.3	5268.7	5289.3	5306.4	5312.9	5319.4	5312.9
15°	4438.2	4463.9	4489.6	4453.2	4396.0	4381.2	4408.6	4429.0	4428.5	4427.9	4428.5
17.5°	3639.8	3637.2	3634.5	3612.0	3582.9	3570.9	3576.0	3579.4	3577.7	3576.0	3577.7
20°	3116.1	3112.1	3108.1	3088.7	3064.1	3049.8	3045.8	3043.5	3046.4	3049.2	3046.4
22.5°	2667.5	2660.8	2654.0	2645.9	2637.4	2628.1	2618.2	2611.6	2615.4	2619.2	2615.4
25°	2131.0	2109.3	2087.6	2070.1	2054.1	2053.0	2066.7	2074.0	2062.0	2050.0	2062.0
27.5°	1710.5	1710.1	1709.8	1699.5	1685.9	1679.8	1681.3	1683.0	1685.3	1687.6	1685.3
30°	1515.0	1511.0	1507.0	1496.1	1483.0	1476.7	1477.3	1476.0	1469.1	1462.2	1469.1
32.5°	1341.1	1344.0	1346.8	1335.3	1318.9	1309.2	1306.1	1302.1	1295.2	1288.4	1295.2
35°	1115.0	1115.0	1115.0	1105.6	1093.0	1082.4	1073.9	1067.0	1065.3	1063.6	1065.3
37.5°	905.4	904.4	903.3	896.4	887.5	876.9	864.8	854.6	850.2	845.7	850.2
40°	771.6	768.8	765.9	760.9	755.2	744.9	730.1	717.3	711.0	704.8	711.0
42.5°	619.4	627.0	634.7	632.3	626.6	616.3	601.4	587.9	578.4	569.0	578.4
45°	364.0	396.0	428.0	439.4	444.0	437.7	420.5	395.0	344.1	293.2	344.1
47.5°	156.4	191.6	226.8	256.4	284.0	275.3	230.1	185.7	143.4	101.1	143.4
50°	72.0	99.5	126.9	163.8	203.8	195.5	138.9	91.6	72.2	52.7	72.2
52.5°	42.2	55.9	69.6	104.1	145.5	141.8	92.9	53.8	43.5	33.2	43.5
55°	18.0	22.6	27.2	45.9	69.3	68.2	42.4	22.1	18.1	14.1	18.1
57.5°	6.7	9.2	11.7	18.4	26.5	26.0	16.9	9.5	7.5	5.4	7.5
60°	2.6	3.7	4.9	8.1	12.1	11.9	7.3	3.6	2.4	1.3	2.4
62.5°	0.5	1.2	1.9	3.7	5.9	5.8	3.5	1.6	0.9	0.3	0.9
65°	0.0	0.0	0.0	0.4	1.0	1.0	0.4	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°	0.4	0.9	1.5	2.0	2.4	2.5	2.5	2.7	2.8	2.8	2.8
90°	1.9	4.4	7.6	10.1	12.0	12.6	12.6	13.3	13.9	13.9	13.9
92.5°	7.0	11.0	11.1	11.1	13.5	14.7	15.7	15.8	16.4	16.4	16.4
95°	19.6	21.5	32.3	31.6	21.5	17.1	14.5	14.5	14.5	14.5	14.5
97.5°	37.4	40.2	42.0	56.3	59.4	57.4	46.8	39.3	35.2	33.3	35.2
100°	53.1	54.4	58.2	58.8	74.6	89.8	82.2	72.7	69.6	67.7	69.6
102.5°	68.8	69.6	75.4	78.0	81.7	90.3	116.6	113.7	111.6	111.2	111.6
105°	92.3	93.0	103.7	108.8	111.3	111.3	110.7	123.3	143.6	148.0	143.6
107.5°	117.5	120.4	133.1	146.6	149.5	150.3	147.0	145.1	144.3	144.8	144.3
110°	134.7	139.1	154.3	171.4	175.8	177.1	175.8	173.9	172.6	172.6	172.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	151.4	157.8	175.0	194.7	202.1	205.9	203.1	201.7	200.5	201.5	200.5
115°	177.1	186.6	209.3	229.6	244.7	246.6	246.0	246.0	245.4	245.4	245.4
117.5°	200.9	216.0	241.6	265.1	282.7	287.7	290.3	289.5	288.8	290.0	288.8
120°	217.5	235.3	264.3	290.9	308.0	315.6	318.1	316.8	318.1	316.8	318.1
122.5°	235.3	257.0	285.6	313.2	333.3	341.9	344.9	345.2	345.4	344.7	345.4
125°	261.8	288.4	321.9	350.4	371.2	381.3	383.9	384.5	385.8	388.9	385.8
127.5°	288.6	318.7	355.5	383.0	404.4	416.6	420.5	421.9	424.6	426.0	424.6
130°	307.3	341.5	378.8	404.7	425.6	438.9	445.8	447.7	450.9	450.3	450.9
132.5°	327.1	362.7	400.6	427.5	446.9	461.2	467.1	472.5	473.7	474.6	473.7
135°	356.0	394.6	432.6	459.1	477.5	491.4	499.0	504.0	507.2	509.1	507.2
137.5°	386.5	427.3	463.7	487.3	505.8	517.8	526.4	531.7	535.0	536.5	535.0
140°	407.3	446.5	481.9	506.6	523.0	535.0	542.6	548.9	552.7	552.7	552.7
142.5°	427.0	465.7	500.1	524.8	539.2	550.2	558.3	563.1	567.4	567.4	567.4
145°	454.7	493.3	524.9	549.6	561.6	571.7	580.5	584.3	586.9	586.9	586.9
147.5°	483.7	517.8	546.7	570.3	580.4	592.3	599.3	602.3	605.5	604.1	605.5
150°	500.9	532.5	560.3	582.4	592.6	603.9	610.9	613.4	616.6	614.7	616.6
152.5°	517.6	547.7	573.0	593.6	602.2	613.6	621.5	624.1	626.2	624.8	626.2
155°	540.1	566.6	590.0	609.0	616.6	627.3	634.9	638.1	640.6	637.5	640.6
157.5°	560.2	583.1	603.4	620.9	629.0	638.2	645.3	649.2	651.8	650.4	651.8
160°	572.3	593.2	611.5	628.0	635.6	643.8	651.4	655.8	658.3	656.4	658.3
162.5°	582.4	601.3	618.6	633.5	640.1	647.3	656.4	660.4	662.9	660.5	662.9
165°	597.0	612.2	627.3	640.0	645.7	651.4	660.9	665.3	667.2	664.7	667.2
167.5°	608.0	619.6	631.9	642.8	647.0	652.5	662.0	665.7	668.1	664.9	668.1
170°	614.1	624.2	634.9	643.8	647.0	652.0	661.5	664.7	666.6	663.4	666.6
172.5°	619.1	626.7	635.4	643.3	644.9	649.0	658.0	661.1	662.5	659.9	662.5
175°	624.2	628.6	634.9	640.0	639.4	641.9	649.5	652.0	654.5	650.7	654.5
177.5°	626.6	628.6	630.6	633.7	631.6	631.6	637.2	638.7	639.2	637.2	639.2
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3
2.5°	7098.4	7081.5	7056.3	7057.5	7084.9	7108.4	7120.3	7132.2	7120.3	7108.4	7084.9
5°	6870.7	6842.3	6805.1	6797.1	6818.2	6838.2	6854.8	6871.4	6854.8	6838.2	6818.2
7.5°	6354.1	6324.3	6283.2	6272.6	6292.8	6306.5	6301.1	6295.8	6301.1	6306.5	6292.8
10°	5860.6	5854.1	5840.4	5834.7	5837.0	5837.7	5833.7	5829.7	5833.7	5837.7	5837.0
12.5°	5306.4	5289.3	5268.7	5273.3	5303.0	5321.3	5305.4	5289.6	5305.4	5321.3	5303.0
15°	4429.0	4408.6	4381.2	4396.0	4453.2	4489.6	4463.9	4438.2	4463.9	4489.6	4453.2
17.5°	3579.4	3576.0	3570.9	3582.9	3612.0	3634.5	3637.2	3639.8	3637.2	3634.5	3612.0
20°	3043.5	3045.8	3049.8	3064.1	3088.7	3108.1	3112.1	3116.1	3112.1	3108.1	3088.7
22.5°	2611.6	2618.2	2628.1	2637.4	2645.9	2654.0	2660.8	2667.5	2660.8	2654.0	2645.9
25°	2074.0	2066.7	2053.0	2054.1	2070.1	2087.6	2109.3	2131.0	2109.3	2087.6	2070.1
27.5°	1683.0	1681.3	1679.8	1685.9	1699.5	1709.8	1710.1	1710.5	1710.1	1709.8	1699.5
30°	1476.0	1477.3	1476.7	1483.0	1496.1	1507.0	1511.0	1515.0	1511.0	1507.0	1496.1
32.5°	1302.1	1306.1	1309.2	1318.9	1335.3	1346.8	1344.0	1341.1	1344.0	1346.8	1335.3
35°	1067.0	1073.9	1082.4	1093.0	1105.6	1115.0	1115.0	1115.0	1115.0	1115.0	1105.6
37.5°	854.6	864.8	876.9	887.5	896.4	903.3	904.4	905.4	904.4	903.3	896.4
40°	717.3	730.1	744.9	755.2	760.9	765.9	768.8	771.6	768.8	765.9	760.9
42.5°	587.9	601.4	616.3	626.6	632.3	634.7	627.0	619.4	627.0	634.7	632.3
45°	395.0	420.5	437.7	444.0	439.4	428.0	396.0	364.0	396.0	428.0	439.4
47.5°	185.7	230.1	275.3	284.0	256.4	226.8	191.6	156.4	191.6	226.8	256.4
50°	91.6	138.9	195.5	203.8	163.8	126.9	99.5	72.0	99.5	126.9	163.8
52.5°	53.8	92.9	141.8	145.5	104.1	69.6	55.9	42.2	55.9	69.6	104.1
55°	22.1	42.4	68.2	69.3	45.9	27.2	22.6	18.0	22.6	27.2	45.9
57.5°	9.5	16.9	26.0	26.5	18.4	11.7	9.2	6.7	9.2	11.7	18.4
60°	3.6	7.3	11.9	12.1	8.1	4.9	3.7	2.6	3.7	4.9	8.1
62.5°	1.6	3.5	5.8	5.9	3.7	1.9	1.2	0.5	1.2	1.9	3.7
65°	0.0	0.4	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
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°	2.7	2.5	2.5	2.4	2.0	1.5	0.9	0.4	0.9	1.4	2.3
90°	13.3	12.6	12.6	12.0	10.1	7.6	4.4	1.9	4.4	7.0	11.4
92.5°	15.8	15.7	14.7	13.5	11.1	11.1	11.0	7.0	12.0	17.1	24.5
95°	14.5	14.5	17.1	21.5	31.6	32.3	21.5	19.6	27.8	39.2	49.3
97.5°	39.3	46.8	57.4	59.4	56.3	42.0	40.2	37.4	51.0	62.2	78.5
100°	72.7	82.2	89.8	74.6	58.8	58.2	54.4	53.1	67.7	78.4	94.2
102.5°	113.7	116.6	90.3	81.7	78.0	75.4	69.6	68.8	83.4	98.1	111.4
105°	123.3	110.7	111.3	111.3	108.8	103.7	93.0	92.3	108.8	125.8	142.3
107.5°	145.1	147.0	150.3	149.5	146.6	133.1	120.4	117.5	132.3	152.8	170.9
110°	173.9	175.8	177.1	175.8	171.4	154.3	139.1	134.7	148.0	169.5	189.1



TEST NUMBER: P1427597

CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	201.7	203.1	205.9	202.1	194.7	175.0	157.8	151.4	164.7	186.7	206.8
115°	246.0	246.0	246.6	244.7	229.6	209.3	186.6	177.1	188.5	208.7	230.8
117.5°	289.5	290.3	287.7	282.7	265.1	241.6	216.0	200.9	209.8	231.2	254.0
120°	316.8	318.1	315.6	308.0	290.9	264.3	235.3	217.5	224.5	245.4	268.1
122.5°	345.2	344.9	341.9	333.3	313.2	285.6	257.0	235.3	238.2	257.5	279.8
125°	384.5	383.9	381.3	371.2	350.4	321.9	288.4	261.8	258.0	274.5	297.2
127.5°	421.9	420.5	416.6	404.4	383.0	355.5	318.7	288.6	280.2	290.5	311.4
130°	447.7	445.8	438.9	425.6	404.7	378.8	341.5	307.3	295.3	301.7	320.0
132.5°	472.5	467.1	461.2	446.9	427.5	400.6	362.7	327.1	310.5	313.3	327.6
135°	504.0	499.0	491.4	477.5	459.1	432.6	394.6	356.0	333.3	330.7	339.0
137.5°	531.7	526.4	517.8	505.8	487.3	463.7	427.3	386.5	357.8	349.3	352.5
140°	548.9	542.6	535.0	523.0	506.6	481.9	446.5	407.3	375.0	363.0	361.1
142.5°	563.1	558.3	550.2	539.2	524.8	500.1	465.7	427.0	392.7	377.2	372.7
145°	584.3	580.5	571.7	561.6	549.6	524.9	493.3	454.7	420.5	400.3	390.8
147.5°	602.3	599.3	592.3	580.4	570.3	546.7	517.8	483.7	448.6	423.6	411.3
150°	613.4	610.9	603.9	592.6	582.4	560.3	532.5	500.9	467.3	440.8	425.0
152.5°	624.1	621.5	613.6	602.2	593.6	573.0	547.7	517.6	483.5	457.0	440.7
155°	638.1	634.9	627.3	616.6	609.0	590.0	566.6	540.1	511.0	483.2	464.8
157.5°	649.2	645.3	638.2	629.0	620.9	603.4	583.1	560.2	534.8	508.2	489.5
160°	655.8	651.4	643.8	635.6	628.0	611.5	593.2	572.3	548.9	524.9	504.7
162.5°	660.4	656.4	647.3	640.1	633.5	618.6	601.3	582.4	561.6	540.6	521.9
165°	665.3	660.9	651.4	645.7	640.0	627.3	612.2	597.0	579.3	562.2	547.0
167.5°	665.7	662.0	652.5	647.0	642.8	631.9	619.6	608.0	594.2	580.8	568.2
170°	664.7	661.5	652.0	647.0	643.8	634.9	624.2	614.1	603.3	591.9	581.8
172.5°	661.1	658.0	649.0	644.9	643.3	635.4	626.7	619.1	609.9	601.5	593.4
175°	652.0	649.5	641.9	639.4	640.0	634.9	628.6	624.2	618.5	613.4	609.0
177.5°	638.7	637.2	631.6	631.6	633.7	630.6	628.6	626.6	624.1	622.5	621.0
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1427597

CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3	7136.3
2.5°	7057.5	7056.3	7081.5	7098.4	7090.6	7082.8	7090.6	7098.4	7081.5	7056.3	7057.5
5°	6797.1	6805.1	6842.3	6870.7	6873.0	6875.3	6873.0	6870.7	6842.3	6805.1	6797.1
7.5°	6272.6	6283.2	6324.3	6354.1	6349.6	6345.1	6349.6	6354.1	6324.3	6283.2	6272.6
10°	5834.7	5840.4	5854.1	5860.6	5845.1	5829.7	5845.1	5860.6	5854.1	5840.4	5834.7
12.5°	5273.3	5268.7	5289.3	5306.4	5312.9	5319.4	5312.9	5306.4	5289.3	5268.7	5273.3
15°	4396.0	4381.2	4408.6	4429.0	4428.5	4427.9	4428.5	4429.0	4408.6	4381.2	4396.0
17.5°	3582.9	3570.9	3576.0	3579.4	3577.7	3576.0	3577.7	3579.4	3576.0	3570.9	3582.9
20°	3064.1	3049.8	3045.8	3043.5	3046.4	3049.2	3046.4	3043.5	3045.8	3049.8	3064.1
22.5°	2637.4	2628.1	2618.2	2611.6	2615.4	2619.2	2615.4	2611.6	2618.2	2628.1	2637.4
25°	2054.1	2053.0	2066.7	2074.0	2062.0	2050.0	2062.0	2074.0	2066.7	2053.0	2054.1
27.5°	1685.9	1679.8	1681.3	1683.0	1685.3	1687.6	1685.3	1683.0	1681.3	1679.8	1685.9
30°	1483.0	1476.7	1477.3	1476.0	1469.1	1462.2	1469.1	1476.0	1477.3	1476.7	1483.0
32.5°	1318.9	1309.2	1306.1	1302.1	1295.2	1288.4	1295.2	1302.1	1306.1	1309.2	1318.9
35°	1093.0	1082.4	1073.9	1067.0	1065.3	1063.6	1065.3	1067.0	1073.9	1082.4	1093.0
37.5°	887.5	876.9	864.8	854.6	850.2	845.7	850.2	854.6	864.8	876.9	887.5
40°	755.2	744.9	730.1	717.3	711.0	704.8	711.0	717.3	730.1	744.9	755.2
42.5°	626.6	616.3	601.4	587.9	578.4	569.0	578.4	587.9	601.4	616.3	626.6
45°	444.0	437.7	420.5	395.0	344.1	293.2	344.1	395.0	420.5	437.7	444.0
47.5°	284.0	275.3	230.1	185.7	143.4	101.1	143.4	185.7	230.1	275.3	284.0
50°	203.8	195.5	138.9	91.6	72.2	52.7	72.2	91.6	138.9	195.5	203.8
52.5°	145.5	141.8	92.9	53.8	43.5	33.2	43.5	53.8	92.9	141.8	145.5
55°	69.3	68.2	42.4	22.1	18.1	14.1	18.1	22.1	42.4	68.2	69.3
57.5°	26.5	26.0	16.9	9.5	7.5	5.4	7.5	9.5	16.9	26.0	26.5
60°	12.1	11.9	7.3	3.6	2.4	1.3	2.4	3.6	7.3	11.9	12.1
62.5°	5.9	5.8	3.5	1.6	0.9	0.3	0.9	1.6	3.5	5.8	5.9
65°	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	1.0	1.0
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°	2.9	3.8	4.7	5.2	5.7	5.4	5.7	5.2	4.7	3.8	2.9
90°	14.5	19.0	23.4	25.9	28.5	27.2	28.5	25.9	23.4	19.0	14.5
92.5°	29.2	36.7	42.1	46.7	48.7	48.4	48.7	46.7	42.1	36.7	29.2
95°	58.8	67.7	76.5	82.8	86.6	85.4	86.6	82.8	76.5	67.7	58.8
97.5°	90.7	102.6	112.4	118.4	122.2	124.7	122.2	118.4	112.4	102.6	90.7
100°	111.9	123.3	134.7	141.7	148.0	150.5	148.0	141.7	134.7	123.3	111.9
102.5°	129.1	144.1	156.5	163.9	169.2	171.8	169.2	163.9	156.5	144.1	129.1
105°	157.5	173.3	186.6	196.0	201.7	203.6	201.7	196.0	186.6	173.3	157.5
107.5°	185.8	202.1	214.4	224.9	231.8	235.9	231.8	224.9	214.4	202.1	185.8
110°	208.1	221.3	234.6	244.1	251.1	253.6	251.1	244.1	234.6	221.3	208.1



TEST NUMBER: P1427597

CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	226.8	241.6	254.9	264.3	272.3	275.9	272.3	264.3	254.9	241.6	226.8
115°	253.0	272.6	284.6	293.4	299.1	302.3	299.1	293.4	284.6	272.6	253.0
117.5°	274.7	295.2	308.4	315.2	317.8	320.1	317.8	315.2	308.4	295.2	274.7
120°	288.4	307.3	322.5	331.4	334.5	335.8	334.5	331.4	322.5	307.3	288.4
122.5°	301.0	319.0	333.7	344.5	349.7	351.0	349.7	344.5	333.7	319.0	301.0
125°	318.7	335.8	351.0	361.7	367.4	370.6	367.4	361.7	351.0	335.8	318.7
127.5°	334.2	352.6	366.5	376.3	381.8	384.4	381.8	376.3	366.5	352.6	334.2
130°	342.8	361.7	375.6	386.4	391.5	394.0	391.5	386.4	375.6	361.7	342.8
132.5°	349.3	369.3	383.7	393.5	399.0	401.6	399.0	393.5	383.7	369.3	349.3
135°	357.3	378.2	393.4	402.8	407.9	410.4	407.9	402.8	393.4	378.2	357.3
137.5°	364.3	383.2	399.0	409.0	413.6	415.2	413.6	409.0	399.0	383.2	364.3
140°	369.3	385.8	401.6	411.1	416.1	416.8	416.1	411.1	401.6	385.8	369.3
142.5°	375.9	388.8	402.6	412.1	417.1	418.3	417.1	412.1	402.6	388.8	375.9
145°	387.7	395.3	404.7	413.6	418.0	419.3	418.0	413.6	404.7	395.3	387.7
147.5°	402.5	404.9	409.8	415.6	419.9	420.8	419.9	415.6	409.8	404.9	402.5
150°	413.6	413.0	414.9	418.7	422.4	421.8	422.4	418.7	414.9	413.0	413.6
152.5°	426.2	422.6	422.4	424.2	426.0	425.9	426.0	424.2	422.4	422.6	426.2
155°	447.7	440.8	437.0	435.7	435.7	435.1	435.7	435.7	437.0	440.8	447.7
157.5°	471.4	461.7	456.0	452.9	452.0	450.7	452.0	452.9	456.0	461.7	471.4
160°	487.6	476.8	471.1	466.1	464.2	462.3	464.2	466.1	471.1	476.8	487.6
162.5°	502.8	492.5	486.3	481.8	479.9	477.0	479.9	481.8	486.3	492.5	502.8
165°	527.4	516.7	509.7	505.9	503.4	500.9	503.4	505.9	509.7	516.7	527.4
167.5°	552.1	540.3	535.8	531.5	529.1	524.5	529.1	531.5	535.8	540.3	552.1
170°	567.3	556.5	554.0	550.2	545.8	540.7	545.8	550.2	554.0	556.5	567.3
172.5°	580.4	573.2	570.7	566.9	565.5	561.4	565.5	566.9	570.7	573.2	580.4
175°	599.5	593.8	593.8	593.2	591.3	587.5	591.3	593.2	593.8	593.8	599.5
177.5°	615.5	612.4	614.4	614.4	613.9	610.4	613.9	614.4	614.4	612.4	615.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1427597

CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	7136.3	7136.3	7136.3	7136.3
2.5°	7084.9	7108.4	7120.3	7132.2
5°	6818.2	6838.2	6854.8	6871.4
7.5°	6292.8	6306.5	6301.1	6295.8
10°	5837.0	5837.7	5833.7	5829.7
12.5°	5303.0	5321.3	5305.4	5289.6
15°	4453.2	4489.6	4463.9	4438.2
17.5°	3612.0	3634.5	3637.2	3639.8
20°	3088.7	3108.1	3112.1	3116.1
22.5°	2645.9	2654.0	2660.8	2667.5
25°	2070.1	2087.6	2109.3	2131.0
27.5°	1699.5	1709.8	1710.1	1710.5
30°	1496.1	1507.0	1511.0	1515.0
32.5°	1335.3	1346.8	1344.0	1341.1
35°	1105.6	1115.0	1115.0	1115.0
37.5°	896.4	903.3	904.4	905.4
40°	760.9	765.9	768.8	771.6
42.5°	632.3	634.7	627.0	619.4
45°	439.4	428.0	396.0	364.0
47.5°	256.4	226.8	191.6	156.4
50°	163.8	126.9	99.5	72.0
52.5°	104.1	69.6	55.9	42.2
55°	45.9	27.2	22.6	18.0
57.5°	18.4	11.7	9.2	6.7
60°	8.1	4.9	3.7	2.6
62.5°	3.7	1.9	1.2	0.5
65°	0.4	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°	2.3	1.4	0.9	0.4
90°	11.4	7.0	4.4	1.9
92.5°	24.5	17.1	12.0	7.0
95°	49.3	39.2	27.8	19.6
97.5°	78.5	62.2	51.0	37.4
100°	94.2	78.4	67.7	53.1
102.5°	111.4	98.1	83.4	68.8
105°	142.3	125.8	108.8	92.3
107.5°	170.9	152.8	132.3	117.5
110°	189.1	169.5	148.0	134.7



TEST NUMBER: P1427597

CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	206.8	186.7	164.7	151.4
115°	230.8	208.7	188.5	177.1
117.5°	254.0	231.2	209.8	200.9
120°	268.1	245.4	224.5	217.5
122.5°	279.8	257.5	238.2	235.3
125°	297.2	274.5	258.0	261.8
127.5°	311.4	290.5	280.2	288.6
130°	320.0	301.7	295.3	307.3
132.5°	327.6	313.3	310.5	327.1
135°	339.0	330.7	333.3	356.0
137.5°	352.5	349.3	357.8	386.5
140°	361.1	363.0	375.0	407.3
142.5°	372.7	377.2	392.7	427.0
145°	390.8	400.3	420.5	454.7
147.5°	411.3	423.6	448.6	483.7
150°	425.0	440.8	467.3	500.9
152.5°	440.7	457.0	483.5	517.6
155°	464.8	483.2	511.0	540.1
157.5°	489.5	508.2	534.8	560.2
160°	504.7	524.9	548.9	572.3
162.5°	521.9	540.6	561.6	582.4
165°	547.0	562.2	579.3	597.0
167.5°	568.2	580.8	594.2	608.0
170°	581.8	591.9	603.3	614.1
172.5°	593.4	601.5	609.9	619.1
175°	609.0	613.4	618.5	624.2
177.5°	621.0	622.5	624.1	626.6
180°	626.1	626.1	626.1	626.1



TEST NUMBER: P1427597  
 CATALOG NUMBER: SQ2W-BBN-K-050U-100D-L930-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00