

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: P1427581

Luminaire Tested: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427581  
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-025U-050D-L940-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 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

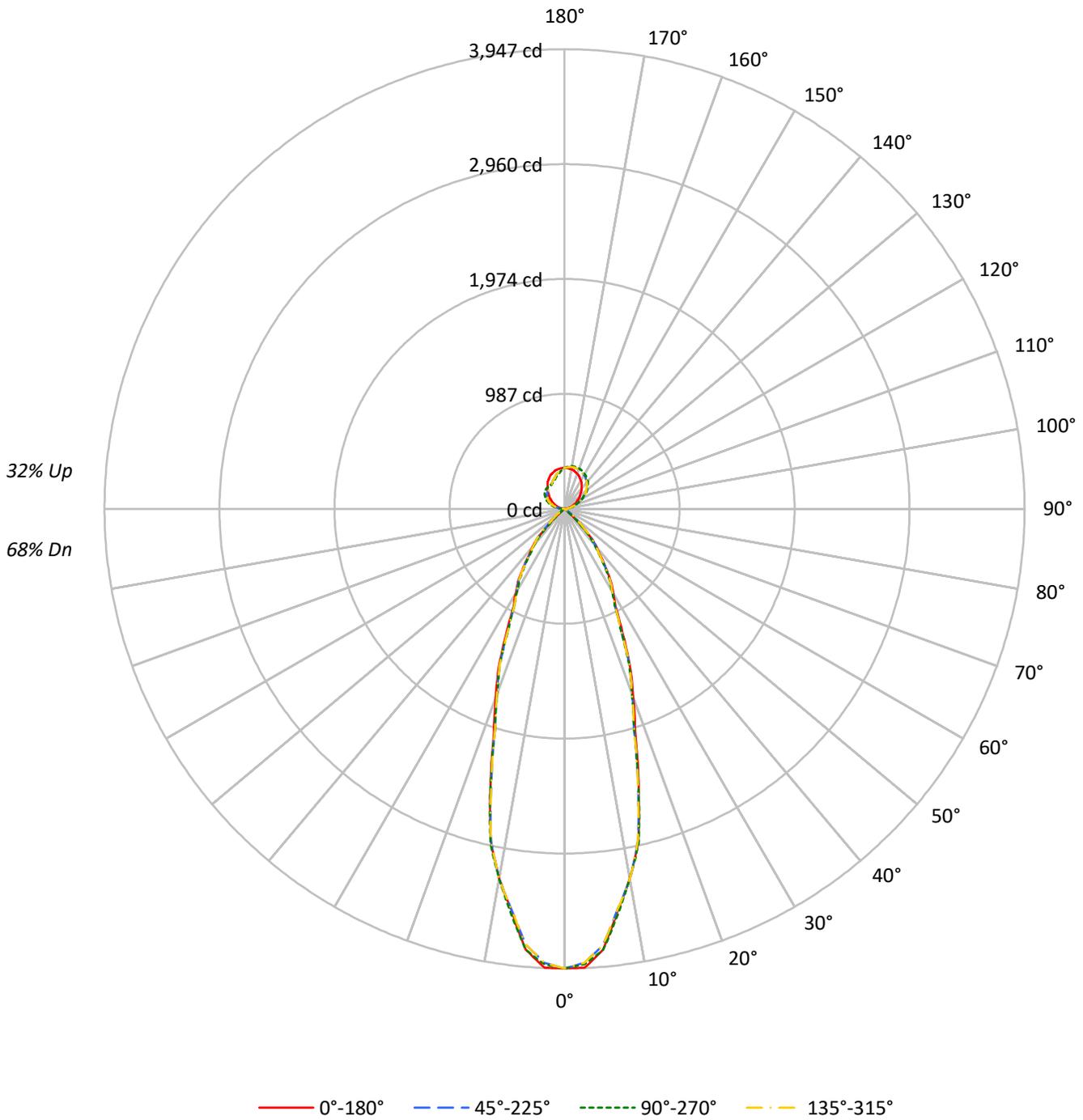
Lumens per Lamp: N/A  
Luminaire Lumens: 3158.6 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 25.6  
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: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	105	102	99	97	99	97	94	92	87	85	83	77	76	75	69	68	67	64
2	99	94	89	85	94	89	85	82	81	78	75	73	71	69	66	64	63	59
3	93	86	81	77	88	82	78	74	75	72	69	68	66	64	62	60	59	56
4	88	80	74	69	83	76	71	67	70	66	63	64	61	59	59	57	55	52
5	83	74	68	63	79	71	66	62	66	61	58	61	57	55	56	53	51	49
6	78	69	63	58	75	66	61	57	62	57	54	57	54	51	53	50	48	46
7	74	64	58	54	71	62	57	53	58	54	50	54	51	48	50	48	45	44
8	70	61	54	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	42	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°	63720	63720	63720	63720
5°	61587	61623	61587	61623
10°	52856	52856	52856	52856
15°	41026	40930	41026	40930
20°	29609	28974	29609	28974
25°	20995	20196	20995	20196
30°	15619	15077	15619	15077
35°	12153	11593	12153	11593
40°	8993	8214	8993	8214
45°	4596	3704	4596	3704
50°	1000	733	1000	733
55°	281	220	281	220
60°	45	23	45	23
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: 5606 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.3	10.8
10°-20°	672.8	21.3
20°-30°	542.7	17.2
30°-40°	377.0	11.9
40°-50°	174.2	5.5
50°-60°	24.4	0.8
60°-70°	0.8	0.0
70°-80°	0.0	0.0
80°-90°	1.9	0.1
90°-100°	27.9	0.9
100°-110°	81.4	2.6
110°-120°	132.8	4.2
120°-130°	168.5	5.3
130°-140°	180.3	5.7
140°-150°	168.4	5.3
150°-160°	138.6	4.4
160°-170°	92.9	2.9
170°-180°	33.0	1.0
0°-30°	1556.8	49.3
0°-40°	1933.9	61.2
0°-60°	2132.4	67.5
0°-90°	2135.1	67.6
90°-120°	242.1	7.7
90°-150°	759.4	24.0
90°-180°	1024.0	32.4
0°-180°	3158.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3947	3947	3947	3947	3947	
5°	3800	3802	3800	3802	3800	341
15°	2454	2449	2454	2449	2454	676
25°	1178	1134	1178	1134	1178	552
35°	617	588	617	588	617	386
45°	201	162	201	162	201	163
55°	10	8	10	8	10	13
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	8	1	15	1	1
95°	11	8	11	48	11	13
105°	52	83	52	114	52	55
115°	99	137	99	169	99	98
125°	147	218	147	208	147	131
135°	199	285	199	230	199	154
145°	255	329	255	235	255	159
155°	302	357	302	244	302	139
165°	334	372	334	280	334	94
175°	350	364	350	329	350	33
180°	351	351	351	351	351	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6
2.5°	3944.3	3937.7	3931.1	3918.1	3902.9	3902.3	3916.2	3925.6	3921.3	3917.0	3921.3
5°	3800.0	3790.9	3781.7	3770.6	3758.9	3763.4	3783.9	3799.6	3800.9	3802.2	3800.9
7.5°	3481.7	3484.7	3487.6	3480.0	3468.9	3474.7	3497.5	3513.9	3511.5	3509.0	3511.5
10°	3224.0	3226.2	3228.4	3228.0	3226.7	3229.9	3237.5	3241.0	3232.5	3224.0	3232.5
12.5°	2925.2	2934.0	2942.8	2932.7	2916.2	2913.7	2925.1	2934.5	2938.1	2941.7	2938.1
15°	2454.4	2468.6	2482.9	2462.7	2431.1	2422.9	2438.1	2449.4	2449.0	2448.7	2449.0
17.5°	2012.9	2011.4	2010.0	1997.5	1981.4	1974.8	1977.6	1979.5	1978.6	1977.6	1978.6
20°	1723.3	1721.1	1718.9	1708.1	1694.5	1686.6	1684.4	1683.1	1684.7	1686.3	1684.7
22.5°	1475.2	1471.5	1467.7	1463.3	1458.5	1453.4	1447.9	1444.3	1446.4	1448.5	1446.4
25°	1178.5	1166.5	1154.5	1144.8	1136.0	1135.3	1142.9	1147.0	1140.3	1133.7	1140.3
27.5°	945.9	945.7	945.5	939.9	932.3	929.0	929.8	930.7	932.0	933.3	932.0
30°	837.8	835.6	833.4	827.4	820.1	816.6	817.0	816.2	812.4	808.7	812.4
32.5°	741.7	743.2	744.8	738.4	729.4	724.0	722.3	720.1	716.3	712.5	716.3
35°	616.6	616.6	616.6	611.4	604.5	598.6	593.9	590.1	589.1	588.2	589.1
37.5°	500.7	500.1	499.6	495.7	490.8	485.0	478.3	472.6	470.2	467.7	470.2
40°	426.7	425.2	423.6	420.8	417.6	412.0	403.7	396.7	393.2	389.7	393.2
42.5°	342.5	346.8	351.0	349.7	346.5	340.8	332.6	325.1	319.9	314.6	319.9
45°	201.3	219.0	236.7	243.0	245.5	242.1	232.6	218.4	190.3	162.2	190.3
47.5°	86.5	106.0	125.4	141.8	157.1	152.2	127.3	102.7	79.3	55.9	79.3
50°	39.8	55.0	70.2	90.6	112.7	108.1	76.8	50.7	39.9	29.2	39.9
52.5°	23.3	30.9	38.5	57.6	80.4	78.4	51.4	29.7	24.0	18.3	24.0
55°	10.0	12.5	15.0	25.4	38.3	37.7	23.5	12.2	10.0	7.8	10.0
57.5°	3.7	5.1	6.5	10.2	14.7	14.4	9.3	5.3	4.1	3.0	4.1
60°	1.4	2.1	2.7	4.5	6.7	6.6	4.0	2.0	1.3	0.7	1.3
62.5°	0.3	0.7	1.0	2.0	3.2	3.2	1.9	0.9	0.5	0.1	0.5
65°	0.0	0.0	0.0	0.2	0.6	0.6	0.2	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°	0.2	0.5	0.9	1.1	1.3	1.4	1.4	1.5	1.6	1.6	1.6
90°	1.1	2.5	4.3	5.7	6.7	7.1	7.1	7.4	7.8	7.8	7.8
92.5°	3.9	6.2	6.2	6.2	7.6	8.2	8.8	8.9	9.2	9.2	9.2
95°	11.0	12.0	18.1	17.7	12.0	9.6	8.1	8.1	8.1	8.1	8.1
97.5°	21.0	22.5	23.5	31.5	33.3	32.2	26.2	22.0	19.7	18.6	19.7
100°	29.8	30.5	32.6	32.9	41.8	50.3	46.0	40.7	39.0	37.9	39.0
102.5°	38.5	39.0	42.2	43.7	45.8	50.6	65.3	63.7	62.5	62.3	62.5
105°	51.7	52.1	58.1	60.9	62.3	62.3	62.0	69.1	80.4	82.9	80.4
107.5°	65.8	67.4	74.5	82.1	83.7	84.2	82.3	81.3	80.8	81.1	80.8
110°	75.4	77.9	86.4	96.0	98.5	99.2	98.5	97.4	96.7	96.7	96.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	84.8	88.4	98.0	109.0	113.2	115.3	113.8	113.0	112.3	112.9	112.3
115°	99.2	104.5	117.2	128.6	137.1	138.1	137.8	137.8	137.4	137.4	137.4
117.5°	112.5	121.0	135.3	148.5	158.3	161.2	162.6	162.2	161.7	162.4	161.7
120°	121.9	131.8	148.1	162.9	172.5	176.8	178.2	177.5	178.2	177.5	178.2
122.5°	131.8	144.0	160.0	175.4	186.7	191.5	193.2	193.3	193.5	193.1	193.5
125°	146.6	161.5	180.3	196.2	207.9	213.6	215.0	215.4	216.1	217.8	216.1
127.5°	161.7	178.5	199.1	214.5	226.5	233.4	235.6	236.3	237.8	238.6	237.8
130°	172.2	191.3	212.2	226.7	238.4	245.8	249.7	250.8	252.6	252.2	252.6
132.5°	183.2	203.2	224.4	239.5	250.3	258.3	261.6	264.7	265.3	265.8	265.3
135°	199.4	221.0	242.3	257.2	267.4	275.2	279.5	282.3	284.1	285.1	284.1
137.5°	216.5	239.3	259.7	273.0	283.3	290.0	294.9	297.8	299.7	300.5	299.7
140°	228.1	250.1	269.9	283.7	292.9	299.7	303.9	307.5	309.6	309.6	309.6
142.5°	239.2	260.9	280.1	293.9	302.0	308.2	312.7	315.4	317.8	317.8	317.8
145°	254.7	276.3	294.0	307.8	314.6	320.2	325.2	327.3	328.7	328.7	328.7
147.5°	270.9	290.0	306.2	319.4	325.1	331.8	335.7	337.4	339.1	338.4	339.1
150°	280.5	298.3	313.8	326.2	331.9	338.3	342.2	343.6	345.4	344.3	345.4
152.5°	289.9	306.8	320.9	332.5	337.3	343.7	348.1	349.5	350.8	350.0	350.8
155°	302.5	317.4	330.5	341.1	345.4	351.4	355.6	357.4	358.8	357.1	358.8
157.5°	313.8	326.6	338.0	347.8	352.3	357.5	361.4	363.6	365.1	364.3	365.1
160°	320.6	332.3	342.5	351.7	356.0	360.6	364.9	367.3	368.7	367.7	368.7
162.5°	326.2	336.8	346.5	354.9	358.5	362.6	367.7	369.9	371.3	370.0	371.3
165°	334.4	342.9	351.4	358.5	361.7	364.9	370.2	372.6	373.7	372.3	373.7
167.5°	340.6	347.1	353.9	360.0	362.4	365.5	370.8	372.9	374.2	372.4	374.2
170°	344.0	349.6	355.6	360.6	362.4	365.2	370.5	372.3	373.4	371.6	373.4
172.5°	346.8	351.0	355.9	360.3	361.2	363.5	368.5	370.3	371.1	369.6	371.1
175°	349.6	352.1	355.6	358.5	358.1	359.5	363.8	365.2	366.6	364.5	366.6
177.5°	351.0	352.1	353.2	354.9	353.8	353.8	356.9	357.8	358.0	356.9	358.0
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6
2.5°	3925.6	3916.2	3902.3	3902.9	3918.1	3931.1	3937.7	3944.3	3937.7	3931.1	3918.1
5°	3799.6	3783.9	3763.4	3758.9	3770.6	3781.7	3790.9	3800.0	3790.9	3781.7	3770.6
7.5°	3513.9	3497.5	3474.7	3468.9	3480.0	3487.6	3484.7	3481.7	3484.7	3487.6	3480.0
10°	3241.0	3237.5	3229.9	3226.7	3228.0	3228.4	3226.2	3224.0	3226.2	3228.4	3228.0
12.5°	2934.5	2925.1	2913.7	2916.2	2932.7	2942.8	2934.0	2925.2	2934.0	2942.8	2932.7
15°	2449.4	2438.1	2422.9	2431.1	2462.7	2482.9	2468.6	2454.4	2468.6	2482.9	2462.7
17.5°	1979.5	1977.6	1974.8	1981.4	1997.5	2010.0	2011.4	2012.9	2011.4	2010.0	1997.5
20°	1683.1	1684.4	1686.6	1694.5	1708.1	1718.9	1721.1	1723.3	1721.1	1718.9	1708.1
22.5°	1444.3	1447.9	1453.4	1458.5	1463.3	1467.7	1471.5	1475.2	1471.5	1467.7	1463.3
25°	1147.0	1142.9	1135.3	1136.0	1144.8	1154.5	1166.5	1178.5	1166.5	1154.5	1144.8
27.5°	930.7	929.8	929.0	932.3	939.9	945.5	945.7	945.9	945.7	945.5	939.9
30°	816.2	817.0	816.6	820.1	827.4	833.4	835.6	837.8	835.6	833.4	827.4
32.5°	720.1	722.3	724.0	729.4	738.4	744.8	743.2	741.7	743.2	744.8	738.4
35°	590.1	593.9	598.6	604.5	611.4	616.6	616.6	616.6	616.6	616.6	611.4
37.5°	472.6	478.3	485.0	490.8	495.7	499.6	500.1	500.7	500.1	499.6	495.7
40°	396.7	403.7	412.0	417.6	420.8	423.6	425.2	426.7	425.2	423.6	420.8
42.5°	325.1	332.6	340.8	346.5	349.7	351.0	346.8	342.5	346.8	351.0	349.7
45°	218.4	232.6	242.1	245.5	243.0	236.7	219.0	201.3	219.0	236.7	243.0
47.5°	102.7	127.3	152.2	157.1	141.8	125.4	106.0	86.5	106.0	125.4	141.8
50°	50.7	76.8	108.1	112.7	90.6	70.2	55.0	39.8	55.0	70.2	90.6
52.5°	29.7	51.4	78.4	80.4	57.6	38.5	30.9	23.3	30.9	38.5	57.6
55°	12.2	23.5	37.7	38.3	25.4	15.0	12.5	10.0	12.5	15.0	25.4
57.5°	5.3	9.3	14.4	14.7	10.2	6.5	5.1	3.7	5.1	6.5	10.2
60°	2.0	4.0	6.6	6.7	4.5	2.7	2.1	1.4	2.1	2.7	4.5
62.5°	0.9	1.9	3.2	3.2	2.0	1.0	0.7	0.3	0.7	1.0	2.0
65°	0.0	0.2	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2
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°	1.5	1.4	1.4	1.3	1.1	0.9	0.5	0.2	0.5	0.8	1.3
90°	7.4	7.1	7.1	6.7	5.7	4.3	2.5	1.1	2.5	3.9	6.4
92.5°	8.9	8.8	8.2	7.6	6.2	6.2	6.2	3.9	6.7	9.6	13.7
95°	8.1	8.1	9.6	12.0	17.7	18.1	12.0	11.0	15.6	22.0	27.6
97.5°	22.0	26.2	32.2	33.3	31.5	23.5	22.5	21.0	28.6	34.9	44.0
100°	40.7	46.0	50.3	41.8	32.9	32.6	30.5	29.8	37.9	43.9	52.8
102.5°	63.7	65.3	50.6	45.8	43.7	42.2	39.0	38.5	46.7	55.0	62.4
105°	69.1	62.0	62.3	62.3	60.9	58.1	52.1	51.7	60.9	70.5	79.7
107.5°	81.3	82.3	84.2	83.7	82.1	74.5	67.4	65.8	74.1	85.6	95.7
110°	97.4	98.5	99.2	98.5	96.0	86.4	77.9	75.4	82.9	94.9	105.9



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	113.0	113.8	115.3	113.2	109.0	98.0	88.4	84.8	92.2	104.6	115.8
115°	137.8	137.8	138.1	137.1	128.6	117.2	104.5	99.2	105.6	116.9	129.3
117.5°	162.2	162.6	161.2	158.3	148.5	135.3	121.0	112.5	117.5	129.5	142.3
120°	177.5	178.2	176.8	172.5	162.9	148.1	131.8	121.9	125.7	137.4	150.2
122.5°	193.3	193.2	191.5	186.7	175.4	160.0	144.0	131.8	133.4	144.2	156.7
125°	215.4	215.0	213.6	207.9	196.2	180.3	161.5	146.6	144.5	153.7	166.5
127.5°	236.3	235.6	233.4	226.5	214.5	199.1	178.5	161.7	156.9	162.7	174.4
130°	250.8	249.7	245.8	238.4	226.7	212.2	191.3	172.2	165.4	169.0	179.2
132.5°	264.7	261.6	258.3	250.3	239.5	224.4	203.2	183.2	173.9	175.5	183.5
135°	282.3	279.5	275.2	267.4	257.2	242.3	221.0	199.4	186.7	185.3	189.9
137.5°	297.8	294.9	290.0	283.3	273.0	259.7	239.3	216.5	200.4	195.7	197.4
140°	307.5	303.9	299.7	292.9	283.7	269.9	250.1	228.1	210.1	203.3	202.3
142.5°	315.4	312.7	308.2	302.0	293.9	280.1	260.9	239.2	220.0	211.3	208.8
145°	327.3	325.2	320.2	314.6	307.8	294.0	276.3	254.7	235.6	224.2	218.9
147.5°	337.4	335.7	331.8	325.1	319.4	306.2	290.0	270.9	251.3	237.3	230.4
150°	343.6	342.2	338.3	331.9	326.2	313.8	298.3	280.5	261.8	246.9	238.0
152.5°	349.5	348.1	343.7	337.3	332.5	320.9	306.8	289.9	270.8	256.0	246.8
155°	357.4	355.6	351.4	345.4	341.1	330.5	317.4	302.5	286.2	270.6	260.4
157.5°	363.6	361.4	357.5	352.3	347.8	338.0	326.6	313.8	299.5	284.7	274.2
160°	367.3	364.9	360.6	356.0	351.7	342.5	332.3	320.6	307.5	294.0	282.7
162.5°	369.9	367.7	362.6	358.5	354.9	346.5	336.8	326.2	314.6	302.8	292.3
165°	372.6	370.2	364.9	361.7	358.5	351.4	342.9	334.4	324.5	314.9	306.4
167.5°	372.9	370.8	365.5	362.4	360.0	353.9	347.1	340.6	332.8	325.3	318.2
170°	372.3	370.5	365.2	362.4	360.6	355.6	349.6	344.0	337.9	331.6	325.9
172.5°	370.3	368.5	363.5	361.2	360.3	355.9	351.0	346.8	341.6	336.9	332.4
175°	365.2	363.8	359.5	358.1	358.5	355.6	352.1	349.6	346.4	343.6	341.1
177.5°	357.8	356.9	353.8	353.8	354.9	353.2	352.1	351.0	349.5	348.7	347.8
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6	3946.6
2.5°	3902.9	3902.3	3916.2	3925.6	3921.3	3917.0	3921.3	3925.6	3916.2	3902.3	3902.9
5°	3758.9	3763.4	3783.9	3799.6	3800.9	3802.2	3800.9	3799.6	3783.9	3763.4	3758.9
7.5°	3468.9	3474.7	3497.5	3513.9	3511.5	3509.0	3511.5	3513.9	3497.5	3474.7	3468.9
10°	3226.7	3229.9	3237.5	3241.0	3232.5	3224.0	3232.5	3241.0	3237.5	3229.9	3226.7
12.5°	2916.2	2913.7	2925.1	2934.5	2938.1	2941.7	2938.1	2934.5	2925.1	2913.7	2916.2
15°	2431.1	2422.9	2438.1	2449.4	2449.0	2448.7	2449.0	2449.4	2438.1	2422.9	2431.1
17.5°	1981.4	1974.8	1977.6	1979.5	1978.6	1977.6	1978.6	1979.5	1977.6	1974.8	1981.4
20°	1694.5	1686.6	1684.4	1683.1	1684.7	1686.3	1684.7	1683.1	1684.4	1686.6	1694.5
22.5°	1458.5	1453.4	1447.9	1444.3	1446.4	1448.5	1446.4	1444.3	1447.9	1453.4	1458.5
25°	1136.0	1135.3	1142.9	1147.0	1140.3	1133.7	1140.3	1147.0	1142.9	1135.3	1136.0
27.5°	932.3	929.0	929.8	930.7	932.0	933.3	932.0	930.7	929.8	929.0	932.3
30°	820.1	816.6	817.0	816.2	812.4	808.7	812.4	816.2	817.0	816.6	820.1
32.5°	729.4	724.0	722.3	720.1	716.3	712.5	716.3	720.1	722.3	724.0	729.4
35°	604.5	598.6	593.9	590.1	589.1	588.2	589.1	590.1	593.9	598.6	604.5
37.5°	490.8	485.0	478.3	472.6	470.2	467.7	470.2	472.6	478.3	485.0	490.8
40°	417.6	412.0	403.7	396.7	393.2	389.7	393.2	396.7	403.7	412.0	417.6
42.5°	346.5	340.8	332.6	325.1	319.9	314.6	319.9	325.1	332.6	340.8	346.5
45°	245.5	242.1	232.6	218.4	190.3	162.2	190.3	218.4	232.6	242.1	245.5
47.5°	157.1	152.2	127.3	102.7	79.3	55.9	79.3	102.7	127.3	152.2	157.1
50°	112.7	108.1	76.8	50.7	39.9	29.2	39.9	50.7	76.8	108.1	112.7
52.5°	80.4	78.4	51.4	29.7	24.0	18.3	24.0	29.7	51.4	78.4	80.4
55°	38.3	37.7	23.5	12.2	10.0	7.8	10.0	12.2	23.5	37.7	38.3
57.5°	14.7	14.4	9.3	5.3	4.1	3.0	4.1	5.3	9.3	14.4	14.7
60°	6.7	6.6	4.0	2.0	1.3	0.7	1.3	2.0	4.0	6.6	6.7
62.5°	3.2	3.2	1.9	0.9	0.5	0.1	0.5	0.9	1.9	3.2	3.2
65°	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.6	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°	1.6	2.1	2.6	2.9	3.2	3.0	3.2	2.9	2.6	2.1	1.6
90°	8.1	10.6	13.1	14.5	15.9	15.2	15.9	14.5	13.1	10.6	8.1
92.5°	16.4	20.5	23.6	26.1	27.3	27.1	27.3	26.1	23.6	20.5	16.4
95°	32.9	37.9	42.9	46.4	48.5	47.8	48.5	46.4	42.9	37.9	32.9
97.5°	50.8	57.5	63.0	66.3	68.4	69.9	68.4	66.3	63.0	57.5	50.8
100°	62.7	69.1	75.4	79.3	82.9	84.3	82.9	79.3	75.4	69.1	62.7
102.5°	72.3	80.7	87.6	91.8	94.8	96.2	94.8	91.8	87.6	80.7	72.3
105°	88.2	97.1	104.5	109.8	113.0	114.1	113.0	109.8	104.5	97.1	88.2
107.5°	104.1	113.2	120.1	126.0	129.9	132.1	129.9	126.0	120.1	113.2	104.1
110°	116.5	124.0	131.4	136.7	140.6	142.0	140.6	136.7	131.4	124.0	116.5



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	127.0	135.3	142.8	148.1	152.5	154.5	152.5	148.1	142.8	135.3	127.0
115°	141.7	152.7	159.4	164.4	167.5	169.3	167.5	164.4	159.4	152.7	141.7
117.5°	153.9	165.4	172.7	176.5	178.0	179.3	178.0	176.5	172.7	165.4	153.9
120°	161.5	172.2	180.7	185.6	187.4	188.1	187.4	185.6	180.7	172.2	161.5
122.5°	168.6	178.7	186.9	193.0	195.9	196.6	195.9	193.0	186.9	178.7	168.6
125°	178.5	188.1	196.6	202.6	205.8	207.6	205.8	202.6	196.6	188.1	178.5
127.5°	187.2	197.5	205.3	210.8	213.9	215.3	213.9	210.8	205.3	197.5	187.2
130°	192.0	202.6	210.4	216.4	219.3	220.7	219.3	216.4	210.4	202.6	192.0
132.5°	195.7	206.9	214.9	220.4	223.5	224.9	223.5	220.4	214.9	206.9	195.7
135°	200.1	211.8	220.3	225.6	228.5	229.9	228.5	225.6	220.3	211.8	200.1
137.5°	204.0	214.7	223.5	229.1	231.7	232.6	231.7	229.1	223.5	214.7	204.0
140°	206.9	216.1	224.9	230.2	233.1	233.4	233.1	230.2	224.9	216.1	206.9
142.5°	210.6	217.8	225.5	230.8	233.6	234.3	233.6	230.8	225.5	217.8	210.6
145°	217.1	221.4	226.7	231.7	234.1	234.9	234.1	231.7	226.7	221.4	217.1
147.5°	225.4	226.8	229.5	232.8	235.2	235.7	235.2	232.8	229.5	226.8	225.4
150°	231.7	231.3	232.4	234.5	236.6	236.3	236.6	234.5	232.4	231.3	231.7
152.5°	238.7	236.7	236.6	237.6	238.6	238.5	238.6	237.6	236.6	236.7	238.7
155°	250.8	246.9	244.8	244.1	244.1	243.7	244.1	244.1	244.8	246.9	250.8
157.5°	264.0	258.6	255.4	253.7	253.2	252.4	253.2	253.7	255.4	258.6	264.0
160°	273.1	267.1	263.9	261.1	260.0	258.9	260.0	261.1	263.9	267.1	273.1
162.5°	281.6	275.9	272.4	269.8	268.8	267.2	268.8	269.8	272.4	275.9	281.6
165°	295.4	289.4	285.5	283.4	282.0	280.5	282.0	283.4	285.5	289.4	295.4
167.5°	309.2	302.6	300.1	297.7	296.3	293.8	296.3	297.7	300.1	302.6	309.2
170°	317.7	311.7	310.3	308.2	305.7	302.9	305.7	308.2	310.3	311.7	317.7
172.5°	325.1	321.1	319.7	317.5	316.7	314.5	316.7	317.5	319.7	321.1	325.1
175°	335.8	332.6	332.6	332.3	331.2	329.1	331.2	332.3	332.6	332.6	335.8
177.5°	344.7	343.0	344.2	344.2	343.9	341.9	343.9	344.2	344.2	343.0	344.7
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	3946.6	3946.6	3946.6	3946.6
2.5°	3918.1	3931.1	3937.7	3944.3
5°	3770.6	3781.7	3790.9	3800.0
7.5°	3480.0	3487.6	3484.7	3481.7
10°	3228.0	3228.4	3226.2	3224.0
12.5°	2932.7	2942.8	2934.0	2925.2
15°	2462.7	2482.9	2468.6	2454.4
17.5°	1997.5	2010.0	2011.4	2012.9
20°	1708.1	1718.9	1721.1	1723.3
22.5°	1463.3	1467.7	1471.5	1475.2
25°	1144.8	1154.5	1166.5	1178.5
27.5°	939.9	945.5	945.7	945.9
30°	827.4	833.4	835.6	837.8
32.5°	738.4	744.8	743.2	741.7
35°	611.4	616.6	616.6	616.6
37.5°	495.7	499.6	500.1	500.7
40°	420.8	423.6	425.2	426.7
42.5°	349.7	351.0	346.8	342.5
45°	243.0	236.7	219.0	201.3
47.5°	141.8	125.4	106.0	86.5
50°	90.6	70.2	55.0	39.8
52.5°	57.6	38.5	30.9	23.3
55°	25.4	15.0	12.5	10.0
57.5°	10.2	6.5	5.1	3.7
60°	4.5	2.7	2.1	1.4
62.5°	2.0	1.0	0.7	0.3
65°	0.2	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°	1.3	0.8	0.5	0.2
90°	6.4	3.9	2.5	1.1
92.5°	13.7	9.6	6.7	3.9
95°	27.6	22.0	15.6	11.0
97.5°	44.0	34.9	28.6	21.0
100°	52.8	43.9	37.9	29.8
102.5°	62.4	55.0	46.7	38.5
105°	79.7	70.5	60.9	51.7
107.5°	95.7	85.6	74.1	65.8
110°	105.9	94.9	82.9	75.4



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	115.8	104.6	92.2	84.8
115°	129.3	116.9	105.6	99.2
117.5°	142.3	129.5	117.5	112.5
120°	150.2	137.4	125.7	121.9
122.5°	156.7	144.2	133.4	131.8
125°	166.5	153.7	144.5	146.6
127.5°	174.4	162.7	156.9	161.7
130°	179.2	169.0	165.4	172.2
132.5°	183.5	175.5	173.9	183.2
135°	189.9	185.3	186.7	199.4
137.5°	197.4	195.7	200.4	216.5
140°	202.3	203.3	210.1	228.1
142.5°	208.8	211.3	220.0	239.2
145°	218.9	224.2	235.6	254.7
147.5°	230.4	237.3	251.3	270.9
150°	238.0	246.9	261.8	280.5
152.5°	246.8	256.0	270.8	289.9
155°	260.4	270.6	286.2	302.5
157.5°	274.2	284.7	299.5	313.8
160°	282.7	294.0	307.5	320.6
162.5°	292.3	302.8	314.6	326.2
165°	306.4	314.9	324.5	334.4
167.5°	318.2	325.3	332.8	340.6
170°	325.9	331.6	337.9	344.0
172.5°	332.4	336.9	341.6	346.8
175°	341.1	343.6	346.4	349.6
177.5°	347.8	348.7	349.5	351.0
180°	350.7	350.7	350.7	350.7



TEST NUMBER: P1427581

CATALOG NUMBER: SQ2W-BBN-K-025U-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	0.00	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