

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: P1427593

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427593  
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-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 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

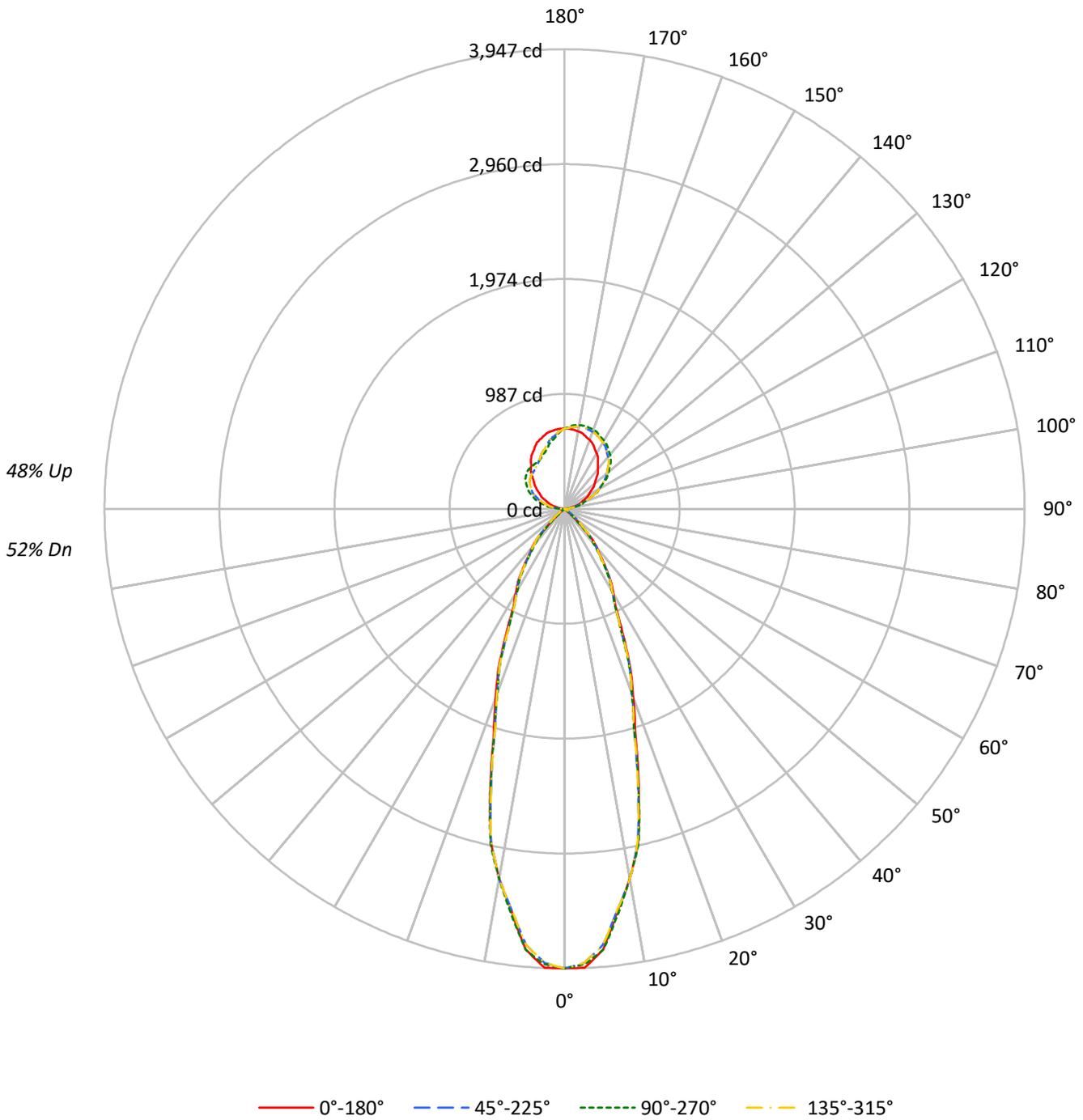
Lumens per Lamp: N/A  
Luminaire Lumens: 4146.6 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.62  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 33  
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: P1427593

CATALOG NUMBER: SQ2W-BBN-K-050U-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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	101	97	94	92	93	90	88	86	77	76	74	66	65	64	55	54	53	48
2	94	88	84	80	87	82	78	75	71	69	66	61	59	58	52	51	50	45
3	88	81	75	70	82	76	71	67	66	63	60	57	55	53	49	47	46	42
4	82	74	68	63	77	70	64	60	61	57	54	54	51	49	46	45	43	40
5	77	68	62	57	72	64	59	54	57	53	50	50	47	45	44	42	40	37
6	73	63	56	52	68	60	54	50	53	49	46	47	44	42	42	39	38	35
7	68	58	52	47	64	55	50	46	50	45	42	44	41	39	39	37	35	33
8	65	55	48	44	61	52	46	42	47	42	39	42	39	36	37	35	33	31
9	61	51	45	41	57	49	43	39	44	40	37	40	36	34	36	33	32	30
10	58	48	42	38	55	46	40	37	42	37	34	38	34	32	34	32	30	28

**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	8.2
10°-20°	672.8	16.2
20°-30°	542.7	13.1
30°-40°	377.0	9.1
40°-50°	174.2	4.2
50°-60°	24.4	0.6
60°-70°	0.8	0.0
70°-80°	0.0	0.0
80°-90°	3.7	0.1
90°-100°	54.8	1.3
100°-110°	159.8	3.9
110°-120°	260.8	6.3
120°-130°	330.9	8.0
130°-140°	354.1	8.5
140°-150°	330.7	8.0
150°-160°	272.1	6.6
160°-170°	182.5	4.4
170°-180°	64.8	1.6
0°-30°	1556.8	37.5
0°-40°	1933.9	46.6
0°-60°	2132.4	51.4
0°-90°	2136.9	51.5
90°-120°	475.4	11.5
90°-150°	1491.1	36.0
90°-180°	2010.0	48.5
0°-180°	4146.6	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°	2	15	2	30	2	2
95°	22	16	22	94	22	26
105°	102	163	102	224	102	108
115°	195	270	195	332	195	192
125°	288	428	288	408	288	258
135°	392	560	392	451	392	303
145°	500	645	500	461	500	313
155°	594	701	594	478	594	273
165°	657	731	657	551	657	185
175°	686	716	686	646	686	65
180°	689	689	689	689	689	



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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°	0.4	1.0	1.7	2.2	2.6	2.8	2.8	2.9	3.1	3.1	3.1
90°	2.1	4.9	8.3	11.1	13.2	13.9	13.9	14.6	15.3	15.3	15.3
92.5°	7.7	12.1	12.2	12.2	14.9	16.1	17.2	17.4	18.1	18.1	18.1
95°	21.6	23.6	35.5	34.8	23.6	18.8	16.0	16.0	16.0	16.0	16.0
97.5°	41.2	44.2	46.2	61.9	65.4	63.2	51.5	43.3	38.7	36.6	38.7
100°	58.4	59.8	64.0	64.7	82.1	98.8	90.4	80.0	76.5	74.4	76.5
102.5°	75.7	76.5	82.9	85.8	89.9	99.3	128.3	125.1	122.7	122.3	122.7
105°	101.5	102.2	114.1	119.6	122.4	122.4	121.7	135.6	157.9	162.7	157.9
107.5°	129.2	132.4	146.3	161.2	164.4	165.3	161.6	159.5	158.7	159.3	158.7
110°	148.1	153.0	169.7	188.5	193.4	194.7	193.4	191.3	189.9	189.9	189.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	166.5	173.6	192.5	214.1	222.3	226.5	223.4	221.9	220.5	221.6	220.5
115°	194.7	205.2	230.2	252.5	269.2	271.2	270.6	270.6	269.9	269.9	269.9
117.5°	220.9	237.6	265.7	291.6	310.9	316.5	319.2	318.4	317.6	319.0	317.6
120°	239.3	258.7	290.7	319.9	338.7	347.1	349.8	348.4	349.8	348.4	349.8
122.5°	258.7	282.7	314.1	344.4	366.5	376.0	379.3	379.6	379.9	379.1	379.9
125°	287.9	317.2	354.0	385.3	408.3	419.4	422.2	422.9	424.3	427.7	424.3
127.5°	317.4	350.5	391.0	421.2	444.7	458.2	462.5	464.0	467.0	468.5	467.0
130°	338.0	375.6	416.6	445.1	468.1	482.7	490.3	492.4	495.9	495.2	495.9
132.5°	359.7	398.9	440.5	470.2	491.4	507.2	513.7	519.7	520.9	521.9	520.9
135°	391.6	434.0	475.7	504.9	525.1	540.4	548.8	554.3	557.8	559.9	557.8
137.5°	425.1	469.9	509.9	536.0	556.3	569.5	578.9	584.8	588.4	590.1	588.4
140°	447.9	491.0	530.0	557.1	575.2	588.4	596.7	603.7	607.9	607.9	607.9
142.5°	469.6	512.2	550.0	577.1	593.0	605.1	614.0	619.3	624.0	624.0	624.0
145°	500.1	542.5	577.3	604.4	617.6	628.7	638.5	642.6	645.4	645.4	645.4
147.5°	531.9	569.5	601.2	627.2	638.3	651.4	659.1	662.4	665.9	664.3	665.9
150°	550.8	585.6	616.2	640.6	651.7	664.2	671.9	674.6	678.1	676.0	678.1
152.5°	569.2	602.3	630.1	652.8	662.3	674.8	683.5	686.3	688.7	687.2	688.7
155°	594.0	623.2	648.9	669.8	678.1	689.9	698.3	701.8	704.5	701.1	704.5
157.5°	616.1	641.3	663.7	682.8	691.8	701.9	709.7	714.0	716.8	715.3	716.8
160°	629.4	652.4	672.6	690.6	699.0	708.0	716.4	721.2	724.0	721.9	724.0
162.5°	640.6	661.3	680.3	696.8	704.0	711.9	721.9	726.2	729.0	726.4	729.0
165°	656.6	673.3	689.9	703.9	710.1	716.4	726.8	731.7	733.8	731.0	733.8
167.5°	668.7	681.5	695.0	706.9	711.5	717.6	728.1	732.1	734.7	731.3	734.7
170°	675.3	686.5	698.3	708.0	711.5	717.1	727.5	731.0	733.1	729.6	733.1
172.5°	680.9	689.2	698.8	707.5	709.3	713.7	723.6	727.1	728.6	725.7	728.6
175°	686.5	691.3	698.3	703.9	703.2	705.9	714.3	717.1	719.9	715.7	719.9
177.5°	689.1	691.3	693.6	696.9	694.7	694.7	700.8	702.5	703.0	700.8	703.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



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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°	2.9	2.8	2.8	2.6	2.2	1.7	1.0	0.4	1.0	1.5	2.5
90°	14.6	13.9	13.9	13.2	11.1	8.3	4.9	2.1	4.9	7.7	12.5
92.5°	17.4	17.2	16.1	14.9	12.2	12.2	12.1	7.7	13.2	18.8	27.0
95°	16.0	16.0	18.8	23.6	34.8	35.5	23.6	21.6	30.6	43.1	54.2
97.5°	43.3	51.5	63.2	65.4	61.9	46.2	44.2	41.2	56.1	68.4	86.4
100°	80.0	90.4	98.8	82.1	64.7	64.0	59.8	58.4	74.4	86.2	103.6
102.5°	125.1	128.3	99.3	89.9	85.8	82.9	76.5	75.7	91.7	107.9	122.5
105°	135.6	121.7	122.4	122.4	119.6	114.1	102.2	101.5	119.6	138.4	156.5
107.5°	159.5	161.6	165.3	164.4	161.2	146.3	132.4	129.2	145.5	168.0	187.9
110°	191.3	193.4	194.7	193.4	188.5	169.7	153.0	148.1	162.7	186.4	208.0



TEST NUMBER: P1427593

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	221.9	223.4	226.5	222.3	214.1	192.5	173.6	166.5	181.1	205.3	227.4
115°	270.6	270.6	271.2	269.2	252.5	230.2	205.2	194.7	207.3	229.5	253.9
117.5°	318.4	319.2	316.5	310.9	291.6	265.7	237.6	220.9	230.8	254.3	279.3
120°	348.4	349.8	347.1	338.7	319.9	290.7	258.7	239.3	246.9	269.9	294.9
122.5°	379.6	379.3	376.0	366.5	344.4	314.1	282.7	258.7	261.9	283.2	307.7
125°	422.9	422.2	419.4	408.3	385.3	354.0	317.2	287.9	283.8	301.9	326.9
127.5°	464.0	462.5	458.2	444.7	421.2	391.0	350.5	317.4	308.1	319.5	342.5
130°	492.4	490.3	482.7	468.1	445.1	416.6	375.6	338.0	324.8	331.8	351.9
132.5°	519.7	513.7	507.2	491.4	470.2	440.5	398.9	359.7	341.5	344.6	360.3
135°	554.3	548.8	540.4	525.1	504.9	475.7	434.0	391.6	366.5	363.8	372.8
137.5°	584.8	578.9	569.5	556.3	536.0	509.9	469.9	425.1	393.5	384.2	387.7
140°	603.7	596.7	588.4	575.2	557.1	530.0	491.0	447.9	412.4	399.2	397.1
142.5°	619.3	614.0	605.1	593.0	577.1	550.0	512.2	469.6	431.9	414.8	409.9
145°	642.6	638.5	628.7	617.6	604.4	577.3	542.5	500.1	462.5	440.3	429.8
147.5°	662.4	659.1	651.4	638.3	627.2	601.2	569.5	531.9	493.4	465.9	452.4
150°	674.6	671.9	664.2	651.7	640.6	616.2	585.6	550.8	514.0	484.8	467.4
152.5°	686.3	683.5	674.8	662.3	652.8	630.1	602.3	569.2	531.8	502.6	484.6
155°	701.8	698.3	689.9	678.1	669.8	648.9	623.2	594.0	562.0	531.4	511.2
157.5°	714.0	709.7	701.9	691.8	682.8	663.7	641.3	616.1	588.1	558.9	538.3
160°	721.2	716.4	708.0	699.0	690.6	672.6	652.4	629.4	603.7	577.3	555.0
162.5°	726.2	721.9	711.9	704.0	696.8	680.3	661.3	640.6	617.6	594.5	573.9
165°	731.7	726.8	716.4	710.1	703.9	689.9	673.3	656.6	637.1	618.3	601.6
167.5°	732.1	728.1	717.6	711.5	706.9	695.0	681.5	668.7	653.5	638.8	624.8
170°	731.0	727.5	717.1	711.5	708.0	698.3	686.5	675.3	663.5	651.0	639.9
172.5°	727.1	723.6	713.7	709.3	707.5	698.8	689.2	680.9	670.7	661.6	652.7
175°	717.1	714.3	705.9	703.2	703.9	698.3	691.3	686.5	680.2	674.6	669.8
177.5°	702.5	700.8	694.7	694.7	696.9	693.6	691.3	689.1	686.3	684.7	683.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427593

CATALOG NUMBER: SQ2W-BBN-K-050U-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°	3.2	4.2	5.1	5.7	6.3	6.0	6.3	5.7	5.1	4.2	3.2
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	25.7	20.9	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	46.3	40.3	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	84.2	74.4	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	123.7	112.8	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	148.1	135.6	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	172.1	158.4	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	205.2	190.6	173.2
107.5°	204.3	222.3	235.8	247.3	255.0	259.4	255.0	247.3	235.8	222.3	204.3
110°	228.8	243.4	258.0	268.5	276.1	278.9	276.1	268.5	258.0	243.4	228.8



TEST NUMBER: P1427593

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	249.4	265.7	280.3	290.7	299.5	303.4	299.5	290.7	280.3	265.7	249.4
115°	278.2	299.8	313.0	322.7	329.0	332.5	329.0	322.7	313.0	299.8	278.2
117.5°	302.1	324.7	339.1	346.6	349.6	352.1	349.6	346.6	339.1	324.7	302.1
120°	317.2	338.0	354.7	364.4	367.9	369.3	367.9	364.4	354.7	338.0	317.2
122.5°	331.1	350.8	366.9	378.9	384.6	386.0	384.6	378.9	366.9	350.8	331.1
125°	350.5	369.3	386.0	397.8	404.1	407.6	404.1	397.8	386.0	369.3	350.5
127.5°	367.5	387.8	403.1	413.8	419.9	422.7	419.9	413.8	403.1	387.8	367.5
130°	377.0	397.8	413.1	425.0	430.5	433.3	430.5	425.0	413.1	397.8	377.0
132.5°	384.2	406.2	422.0	432.7	438.9	441.6	438.9	432.7	422.0	406.2	384.2
135°	393.0	415.9	432.6	443.0	448.6	451.4	448.6	443.0	432.6	415.9	393.0
137.5°	400.6	421.5	438.9	449.9	454.9	456.7	454.9	449.9	438.9	421.5	400.6
140°	406.2	424.3	441.6	452.1	457.6	458.3	457.6	452.1	441.6	424.3	406.2
142.5°	413.4	427.6	442.8	453.2	458.8	460.0	458.8	453.2	442.8	427.6	413.4
145°	426.3	434.7	445.1	454.9	459.7	461.1	459.7	454.9	445.1	434.7	426.3
147.5°	442.6	445.3	450.7	457.1	461.8	462.8	461.8	457.1	445.3	442.6	442.6
150°	454.9	454.2	456.3	460.4	464.6	463.9	464.6	460.4	456.3	454.2	454.9
152.5°	468.8	464.7	464.6	466.5	468.5	468.4	468.5	466.5	464.6	464.7	468.8
155°	492.4	484.8	480.6	479.2	479.2	478.5	479.2	479.2	480.6	484.8	492.4
157.5°	518.4	507.7	501.5	498.1	497.1	495.6	497.1	498.1	501.5	507.7	518.4
160°	536.2	524.4	518.2	512.6	510.5	508.4	510.5	512.6	518.2	524.4	536.2
162.5°	552.9	541.7	534.8	529.8	527.8	524.6	527.8	529.8	534.8	541.7	552.9
165°	580.1	568.2	560.6	556.4	553.6	550.8	553.6	556.4	560.6	568.2	580.1
167.5°	607.2	594.2	589.2	584.5	581.9	576.9	581.9	584.5	589.2	594.2	607.2
170°	623.9	612.0	609.3	605.1	600.2	594.7	600.2	605.1	609.3	612.0	623.9
172.5°	638.3	630.4	627.6	623.5	621.9	617.5	621.9	623.5	627.6	630.4	638.3
175°	659.3	653.1	653.1	652.4	650.3	646.1	650.3	652.4	653.1	653.1	659.3
177.5°	676.9	673.5	675.8	675.8	675.2	671.3	675.2	675.8	675.8	673.5	676.9
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427593

CATALOG NUMBER: SQ2W-BBN-K-050U-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°	2.5	1.5	1.0	0.4
90°	12.5	7.7	4.9	2.1
92.5°	27.0	18.8	13.2	7.7
95°	54.2	43.1	30.6	21.6
97.5°	86.4	68.4	56.1	41.2
100°	103.6	86.2	74.4	58.4
102.5°	122.5	107.9	91.7	75.7
105°	156.5	138.4	119.6	101.5
107.5°	187.9	168.0	145.5	129.2
110°	208.0	186.4	162.7	148.1



TEST NUMBER: P1427593

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	227.4	205.3	181.1	166.5
115°	253.9	229.5	207.3	194.7
117.5°	279.3	254.3	230.8	220.9
120°	294.9	269.9	246.9	239.3
122.5°	307.7	283.2	261.9	258.7
125°	326.9	301.9	283.8	287.9
127.5°	342.5	319.5	308.1	317.4
130°	351.9	331.8	324.8	338.0
132.5°	360.3	344.6	341.5	359.7
135°	372.8	363.8	366.5	391.6
137.5°	387.7	384.2	393.5	425.1
140°	397.1	399.2	412.4	447.9
142.5°	409.9	414.8	431.9	469.6
145°	429.8	440.3	462.5	500.1
147.5°	452.4	465.9	493.4	531.9
150°	467.4	484.8	514.0	550.8
152.5°	484.6	502.6	531.8	569.2
155°	511.2	531.4	562.0	594.0
157.5°	538.3	558.9	588.1	616.1
160°	555.0	577.3	603.7	629.4
162.5°	573.9	594.5	617.6	640.6
165°	601.6	618.3	637.1	656.6
167.5°	624.8	638.8	653.5	668.7
170°	639.9	651.0	663.5	675.3
172.5°	652.7	661.6	670.7	680.9
175°	669.8	674.6	680.2	686.5
177.5°	683.0	684.7	686.3	689.1
180°	688.6	688.6	688.6	688.6



TEST NUMBER: P1427593  
 CATALOG NUMBER: SQ2W-BBN-K-050U-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