

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



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1428599

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428599  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBN-K-050U-050D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

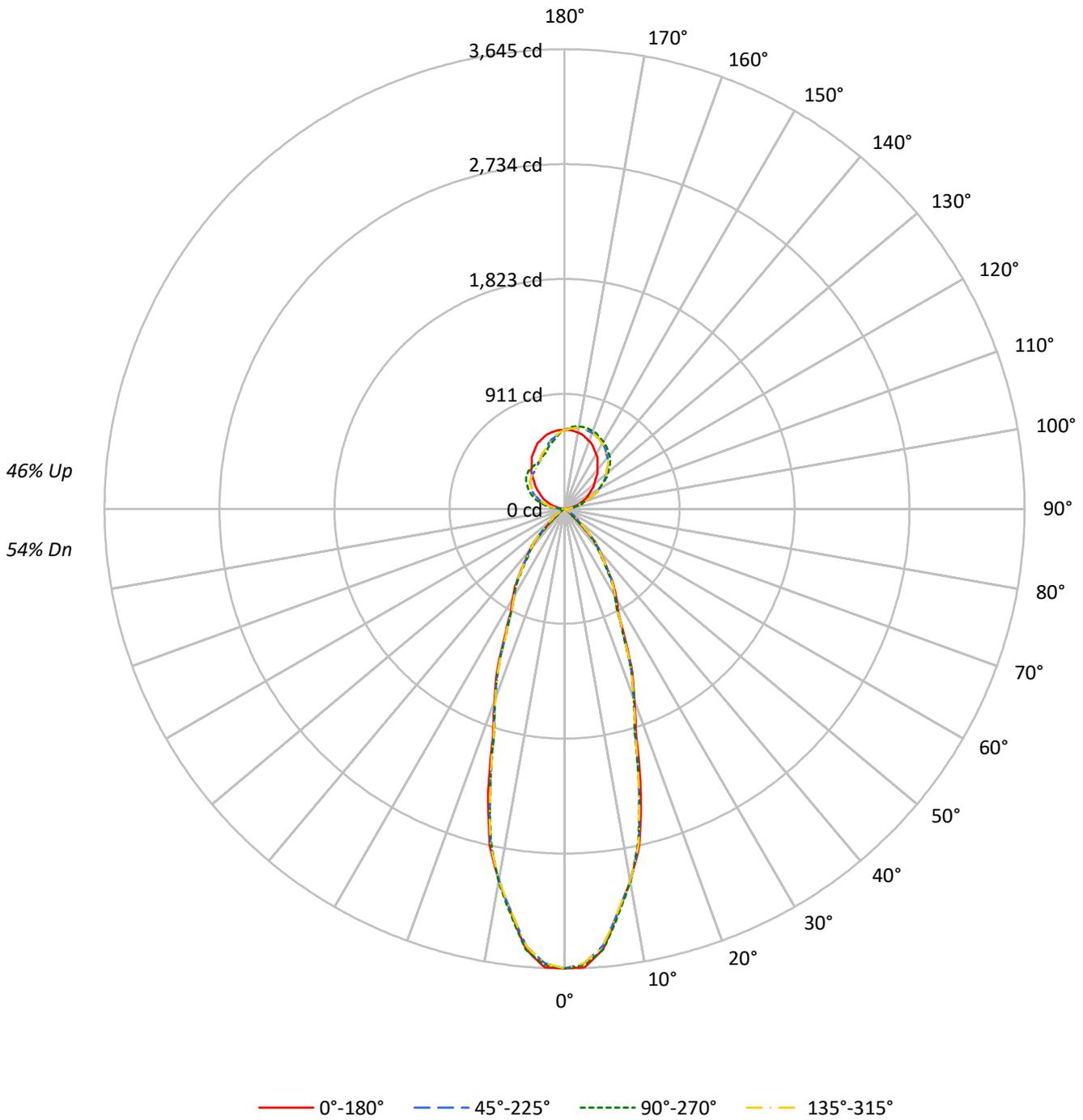
Lumens per Lamp: N/A  
Luminaire Lumens: 3947.3 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

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CATALOG NUMBER: SQ2W-WBN-K-050U-050D-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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54				
1	101	98	95	92	94	91	88	86	78	77	75	67	66	65	56	56	55	50				
2	94	88	84	80	88	83	79	75	72	69	67	62	60	58	53	52	51	46				
3	88	81	75	70	82	76	71	67	66	63	60	58	55	53	50	48	47	43				
4	82	74	68	63	77	70	64	60	62	57	54	54	51	49	47	45	43	40				
5	77	68	61	56	72	64	58	54	57	53	49	51	47	45	44	42	40	38				
6	73	63	56	51	68	59	54	49	53	49	45	47	44	42	42	40	38	35				
7	68	58	52	47	64	55	49	45	50	45	42	45	41	39	40	37	35	33				
8	64	54	48	43	61	52	46	42	47	42	39	42	39	36	38	35	33	31				
9	61	51	44	40	57	48	43	39	44	39	36	40	36	34	36	33	31	30				
10	58	48	41	37	54	45	40	36	41	37	34	38	34	32	34	32	30	28				

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

	0°	90°	180°	270°
0°	58854	58854	58854	58854
5°	56824	56887	56824	56887
10°	49117	49233	49117	49233
15°	39085	38003	39085	38003
20°	27766	27599	27766	27599
25°	19976	19445	19976	19445
30°	15263	14816	15263	14816
35°	11982	11471	11982	11471
40°	9078	8519	9078	8519
45°	5078	4532	5078	4532
50°	1786	1575	1786	1575
55°	1092	1039	1092	1039
60°	836	772	836	772
65°	764	718	764	718
70°	732	670	732	670
75°	686	643	686	643
80°	604	604	604	604
85°	593	482	593	482

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 6023 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.4	8.0
10°-20°	628.9	15.9
20°-30°	520.8	13.2
30°-40°	374.7	9.5
40°-50°	190.9	4.8
50°-60°	49.6	1.3
60°-70°	20.6	0.5
70°-80°	11.4	0.3
80°-90°	6.0	0.2
90°-100°	49.8	1.3
100°-110°	145.3	3.7
110°-120°	237.1	6.0
120°-130°	300.9	7.6
130°-140°	322.0	8.2
140°-150°	300.7	7.6
150°-160°	247.4	6.3
160°-170°	165.9	4.2
170°-180°	58.9	1.5
0°-30°	1466.1	37.1
0°-40°	1840.8	46.6
0°-60°	2081.2	52.7
0°-90°	2119.3	53.7
90°-120°	432.3	11.0
90°-150°	1355.8	34.3
90°-180°	1828.0	46.3
0°-180°	3947.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3645	3645	3645	3645	3645	
5°	3506	3510	3506	3510	3506	316
15°	2338	2274	2338	2274	2338	635
25°	1121	1092	1121	1092	1121	527
35°	608	582	608	582	608	381
45°	222	198	222	198	222	178
55°	39	37	39	37	39	38
65°	20	19	20	19	20	20
75°	11	10	11	10	11	12
85°	3	3	3	3	3	3
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°	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2
2.5°	3639.5	3636.7	3634.0	3621.7	3606.3	3605.0	3617.9	3626.8	3623.6	3620.3	3623.6
5°	3506.1	3503.8	3501.5	3491.1	3477.8	3482.4	3504.8	3520.4	3515.2	3510.0	3515.2
7.5°	3230.8	3232.8	3234.7	3229.3	3221.5	3227.5	3247.4	3260.8	3255.3	3249.8	3255.3
10°	2995.9	3001.1	3006.3	2999.0	2987.5	2996.2	3025.2	3042.1	3022.6	3003.0	3022.6
12.5°	2736.8	2733.4	2730.1	2723.4	2715.6	2714.0	2718.6	2719.4	2708.6	2697.8	2708.6
15°	2338.3	2326.2	2314.1	2295.6	2274.9	2268.2	2275.3	2279.9	2276.8	2273.6	2276.8
17.5°	1883.4	1888.1	1892.7	1880.2	1861.9	1852.4	1851.7	1850.3	1846.8	1843.2	1846.8
20°	1616.0	1617.4	1618.9	1611.0	1600.1	1597.5	1603.3	1607.4	1606.9	1606.3	1606.9
22.5°	1400.8	1401.1	1401.3	1391.0	1377.1	1374.4	1382.9	1388.0	1382.8	1377.6	1382.8
25°	1121.3	1120.4	1119.6	1112.7	1103.8	1097.2	1092.8	1089.8	1090.7	1091.5	1090.7
27.5°	919.5	916.0	912.4	906.5	899.9	898.0	900.8	902.5	900.3	898.2	900.3
30°	818.7	815.8	812.9	807.0	800.1	797.5	799.3	799.9	797.3	794.7	797.3
32.5°	728.1	728.2	728.4	723.0	715.9	711.9	711.1	710.1	708.2	706.3	708.2
35°	607.9	609.6	611.3	607.0	600.7	595.3	591.0	587.2	584.6	582.0	584.6
37.5°	500.5	502.1	503.7	500.1	494.8	488.9	482.6	477.3	475.1	473.0	475.1
40°	430.7	431.8	433.0	430.5	426.7	421.1	413.6	407.6	405.9	404.2	405.9
42.5°	354.6	359.5	364.3	362.7	358.9	353.6	346.6	340.4	336.6	332.8	336.6
45°	222.4	237.7	252.9	259.7	263.8	261.9	254.1	242.8	220.7	198.5	220.7
47.5°	112.5	133.6	154.7	169.9	183.0	178.8	157.3	135.7	113.9	92.2	113.9
50°	71.1	85.8	100.4	119.0	138.8	134.5	106.1	82.3	72.5	62.7	72.5
52.5°	54.6	62.1	69.6	87.3	108.2	106.2	81.2	61.1	55.7	50.3	55.7
55°	38.8	41.7	44.5	54.3	66.4	65.7	52.2	41.5	39.2	36.9	39.2
57.5°	30.0	31.6	33.2	36.9	41.2	40.8	35.7	31.5	30.0	28.6	30.0
60°	25.9	27.0	28.2	30.0	32.0	31.7	29.1	26.8	25.4	23.9	25.4
62.5°	23.3	24.0	24.7	25.5	26.3	25.9	24.3	22.9	22.4	21.9	22.4
65°	20.0	20.3	20.6	20.7	20.7	20.4	19.8	19.3	19.0	18.8	19.0
67.5°	17.1	17.4	17.6	17.7	17.6	17.4	17.2	16.9	16.6	16.3	16.6
70°	15.5	15.8	16.1	16.0	15.7	15.4	15.1	14.8	14.5	14.2	14.5
72.5°	13.5	13.7	14.0	13.9	13.6	13.4	13.4	13.2	13.0	12.7	13.0
75°	11.0	11.0	11.0	11.0	11.0	10.8	10.6	10.3	10.3	10.3	10.3
77.5°	8.5	8.6	8.7	8.4	8.2	8.0	8.0	8.0	7.7	7.5	7.7
80°	6.5	6.8	7.0	6.9	6.6	6.5	6.5	6.5	6.5	6.5	6.5
82.5°	5.4	5.5	5.5	5.3	5.1	4.9	4.9	4.9	4.9	4.9	4.9
85°	3.2	3.2	3.2	3.0	2.7	2.7	3.0	3.2	2.9	2.6	2.9
87.5°	1.4	1.9	2.6	3.1	3.4	3.6	3.6	3.7	3.8	3.8	3.8
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°	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2
2.5°	3626.8	3617.9	3605.0	3606.3	3621.7	3634.0	3636.7	3639.5	3636.7	3634.0	3621.7
5°	3520.4	3504.8	3482.4	3477.8	3491.1	3501.5	3503.8	3506.1	3503.8	3501.5	3491.1
7.5°	3260.8	3247.4	3227.5	3221.5	3229.3	3234.7	3232.8	3230.8	3232.8	3234.7	3229.3
10°	3042.1	3025.2	2996.2	2987.5	2999.0	3006.3	3001.1	2995.9	3001.1	3006.3	2999.0
12.5°	2719.4	2718.6	2714.0	2715.6	2723.4	2730.1	2733.4	2736.8	2733.4	2730.1	2723.4
15°	2279.9	2275.3	2268.2	2274.9	2295.6	2314.1	2326.2	2338.3	2326.2	2314.1	2295.6
17.5°	1850.3	1851.7	1852.4	1861.9	1880.2	1892.7	1888.1	1883.4	1888.1	1892.7	1880.2
20°	1607.4	1603.3	1597.5	1600.1	1611.0	1618.9	1617.4	1616.0	1617.4	1618.9	1611.0
22.5°	1388.0	1382.9	1374.4	1377.1	1391.0	1401.3	1401.1	1400.8	1401.1	1401.3	1391.0
25°	1089.8	1092.8	1097.2	1103.8	1112.7	1119.6	1120.4	1121.3	1120.4	1119.6	1112.7
27.5°	902.5	900.8	898.0	899.9	906.5	912.4	916.0	919.5	916.0	912.4	906.5
30°	799.9	799.3	797.5	800.1	807.0	812.9	815.8	818.7	815.8	812.9	807.0
32.5°	710.1	711.1	711.9	715.9	723.0	728.4	728.2	728.1	728.2	728.4	723.0
35°	587.2	591.0	595.3	600.7	607.0	611.3	609.6	607.9	609.6	611.3	607.0
37.5°	477.3	482.6	488.9	494.8	500.1	503.7	502.1	500.5	502.1	503.7	500.1
40°	407.6	413.6	421.1	426.7	430.5	433.0	431.8	430.7	431.8	433.0	430.5
42.5°	340.4	346.6	353.6	358.9	362.7	364.3	359.5	354.6	359.5	364.3	362.7
45°	242.8	254.1	261.9	263.8	259.7	252.9	237.7	222.4	237.7	252.9	259.7
47.5°	135.7	157.3	178.8	183.0	169.9	154.7	133.6	112.5	133.6	154.7	169.9
50°	82.3	106.1	134.5	138.8	119.0	100.4	85.8	71.1	85.8	100.4	119.0
52.5°	61.1	81.2	106.2	108.2	87.3	69.6	62.1	54.6	62.1	69.6	87.3
55°	41.5	52.2	65.7	66.4	54.3	44.5	41.7	38.8	41.7	44.5	54.3
57.5°	31.5	35.7	40.8	41.2	36.9	33.2	31.6	30.0	31.6	33.2	36.9
60°	26.8	29.1	31.7	32.0	30.0	28.2	27.0	25.9	27.0	28.2	30.0
62.5°	22.9	24.3	25.9	26.3	25.5	24.7	24.0	23.3	24.0	24.7	25.5
65°	19.3	19.8	20.4	20.7	20.7	20.6	20.3	20.0	20.3	20.6	20.7
67.5°	16.9	17.2	17.4	17.6	17.7	17.6	17.4	17.1	17.4	17.6	17.7
70°	14.8	15.1	15.4	15.7	16.0	16.1	15.8	15.5	15.8	16.1	16.0
72.5°	13.2	13.4	13.4	13.6	13.9	14.0	13.7	13.5	13.7	14.0	13.9
75°	10.3	10.6	10.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	8.0	8.0	8.0	8.2	8.4	8.7	8.6	8.5	8.6	8.7	8.4
80°	6.5	6.5	6.5	6.6	6.9	7.0	6.8	6.5	6.8	7.0	6.9
82.5°	4.9	4.9	4.9	5.1	5.3	5.5	5.5	5.4	5.5	5.5	5.3
85°	3.2	3.0	2.7	2.7	3.0	3.2	3.2	3.2	3.2	3.2	3.0
87.5°	3.7	3.6	3.6	3.4	3.1	2.6	1.9	1.4	1.9	2.4	3.3
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: P1428599

CATALOG NUMBER: SQ2W-WBN-K-050U-050D-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: P1428599

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2	3645.2
2.5°	3606.3	3605.0	3617.9	3626.8	3623.6	3620.3	3623.6	3626.8	3617.9	3605.0	3606.3
5°	3477.8	3482.4	3504.8	3520.4	3515.2	3510.0	3515.2	3520.4	3504.8	3482.4	3477.8
7.5°	3221.5	3227.5	3247.4	3260.8	3255.3	3249.8	3255.3	3260.8	3247.4	3227.5	3221.5
10°	2987.5	2996.2	3025.2	3042.1	3022.6	3003.0	3022.6	3042.1	3025.2	2996.2	2987.5
12.5°	2715.6	2714.0	2718.6	2719.4	2708.6	2697.8	2708.6	2719.4	2718.6	2714.0	2715.6
15°	2274.9	2268.2	2275.3	2279.9	2276.8	2273.6	2276.8	2279.9	2275.3	2268.2	2274.9
17.5°	1861.9	1852.4	1851.7	1850.3	1846.8	1843.2	1846.8	1850.3	1851.7	1852.4	1861.9
20°	1600.1	1597.5	1603.3	1607.4	1606.9	1606.3	1606.9	1607.4	1603.3	1597.5	1600.1
22.5°	1377.1	1374.4	1382.9	1388.0	1382.8	1377.6	1382.8	1388.0	1382.9	1374.4	1377.1
25°	1103.8	1097.2	1092.8	1089.8	1090.7	1091.5	1090.7	1089.8	1092.8	1097.2	1103.8
27.5°	899.9	898.0	900.8	902.5	900.3	898.2	900.3	902.5	900.8	898.0	899.9
30°	800.1	797.5	799.3	799.9	797.3	794.7	797.3	799.9	799.3	797.5	800.1
32.5°	715.9	711.9	711.1	710.1	708.2	706.3	708.2	710.1	711.1	711.9	715.9
35°	600.7	595.3	591.0	587.2	584.6	582.0	584.6	587.2	591.0	595.3	600.7
37.5°	494.8	488.9	482.6	477.3	475.1	473.0	475.1	477.3	482.6	488.9	494.8
40°	426.7	421.1	413.6	407.6	405.9	404.2	405.9	407.6	413.6	421.1	426.7
42.5°	358.9	353.6	346.6	340.4	336.6	332.8	336.6	340.4	346.6	353.6	358.9
45°	263.8	261.9	254.1	242.8	220.7	198.5	220.7	242.8	254.1	261.9	263.8
47.5°	183.0	178.8	157.3	135.7	113.9	92.2	113.9	135.7	157.3	178.8	183.0
50°	138.8	134.5	106.1	82.3	72.5	62.7	72.5	82.3	106.1	134.5	138.8
52.5°	108.2	106.2	81.2	61.1	55.7	50.3	55.7	61.1	81.2	106.2	108.2
55°	66.4	65.7	52.2	41.5	39.2	36.9	39.2	41.5	52.2	65.7	66.4
57.5°	41.2	40.8	35.7	31.5	30.0	28.6	30.0	31.5	35.7	40.8	41.2
60°	32.0	31.7	29.1	26.8	25.4	23.9	25.4	26.8	29.1	31.7	32.0
62.5°	26.3	25.9	24.3	22.9	22.4	21.9	22.4	22.9	24.3	25.9	26.3
65°	20.7	20.4	19.8	19.3	19.0	18.8	19.0	19.3	19.8	20.4	20.7
67.5°	17.6	17.4	17.2	16.9	16.6	16.3	16.6	16.9	17.2	17.4	17.6
70°	15.7	15.4	15.1	14.8	14.5	14.2	14.5	14.8	15.1	15.4	15.7
72.5°	13.6	13.4	13.4	13.2	13.0	12.7	13.0	13.2	13.4	13.4	13.6
75°	11.0	10.8	10.6	10.3	10.3	10.3	10.3	10.3	10.6	10.8	11.0
77.5°	8.2	8.0	8.0	8.0	7.7	7.5	7.7	8.0	8.0	8.0	8.2
80°	6.6	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.6
82.5°	5.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.1
85°	2.7	2.7	3.0	3.2	2.9	2.6	2.9	3.2	3.0	2.7	2.7
87.5°	3.9	4.8	5.7	6.2	6.7	6.5	6.7	6.2	5.7	4.8	3.9
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: P1428599

CATALOG NUMBER: SQ2W-WBN-K-050U-050D-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: P1428599

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	3645.2	3645.2	3645.2	3645.2
2.5°	3621.7	3634.0	3636.7	3639.5
5°	3491.1	3501.5	3503.8	3506.1
7.5°	3229.3	3234.7	3232.8	3230.8
10°	2999.0	3006.3	3001.1	2995.9
12.5°	2723.4	2730.1	2733.4	2736.8
15°	2295.6	2314.1	2326.2	2338.3
17.5°	1880.2	1892.7	1888.1	1883.4
20°	1611.0	1618.9	1617.4	1616.0
22.5°	1391.0	1401.3	1401.1	1400.8
25°	1112.7	1119.6	1120.4	1121.3
27.5°	906.5	912.4	916.0	919.5
30°	807.0	812.9	815.8	818.7
32.5°	723.0	728.4	728.2	728.1
35°	607.0	611.3	609.6	607.9
37.5°	500.1	503.7	502.1	500.5
40°	430.5	433.0	431.8	430.7
42.5°	362.7	364.3	359.5	354.6
45°	259.7	252.9	237.7	222.4
47.5°	169.9	154.7	133.6	112.5
50°	119.0	100.4	85.8	71.1
52.5°	87.3	69.6	62.1	54.6
55°	54.3	44.5	41.7	38.8
57.5°	36.9	33.2	31.6	30.0
60°	30.0	28.2	27.0	25.9
62.5°	25.5	24.7	24.0	23.3
65°	20.7	20.6	20.3	20.0
67.5°	17.7	17.6	17.4	17.1
70°	16.0	16.1	15.8	15.5
72.5°	13.9	14.0	13.7	13.5
75°	11.0	11.0	11.0	11.0
77.5°	8.4	8.7	8.6	8.5
80°	6.9	7.0	6.8	6.5
82.5°	5.3	5.5	5.5	5.4
85°	3.0	3.2	3.2	3.2
87.5°	3.3	2.4	1.9	1.4
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: P1428599

CATALOG NUMBER: SQ2W-WBN-K-050U-050D-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: P1428599  
 CATALOG NUMBER: SQ2W-WBN-K-050U-050D-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	0.67	1.37	1.64	2.32	3.56	0.31	1.01	1.28	1.96	3.19
	3H	1.90	2.52	2.88	3.48	4.74	1.51	2.14	2.49	3.10	4.35
	4H	2.42	3.01	3.41	3.97	5.24	2.03	2.61	3.02	3.58	4.84
	6H	2.77	3.31	3.77	4.28	5.56	2.36	2.89	3.36	3.86	5.14
	8H	2.92	3.42	3.92	4.41	5.68	2.50	3.00	3.50	3.99	5.26
	12H	3.01	3.49	4.02	4.47	5.76	2.57	3.05	3.57	4.03	5.32
4H	2H	0.99	1.58	1.99	2.54	3.81	0.69	1.28	1.69	2.24	3.51
	3H	2.49	2.98	3.49	3.97	5.25	2.15	2.64	3.16	3.63	4.91
	4H	3.14	3.58	4.15	4.57	5.87	2.79	3.23	3.79	4.21	5.52
	6H	3.63	4.00	4.65	5.01	6.32	3.24	3.62	4.26	4.63	5.93
	8H	3.84	4.19	4.86	5.19	6.50	3.44	3.79	4.46	4.79	6.10
	12H	3.97	4.28	5.00	5.30	6.62	3.55	3.86	4.58	4.88	6.20
8H	4H	3.30	3.65	4.32	4.65	5.96	2.98	3.33	4.00	4.34	5.65
	6H	3.93	4.22	4.97	5.26	6.58	3.58	3.87	4.62	4.91	6.22
	8H	4.25	4.50	5.30	5.53	6.86	3.87	4.12	4.92	5.15	6.48
	12H	4.47	4.69	5.52	5.72	7.09	4.07	4.29	5.12	5.32	6.69
12H	4H	3.28	3.59	4.31	4.61	5.93	2.97	3.28	4.00	4.30	5.62
	6H	3.97	4.22	5.02	5.25	6.58	3.63	3.88	4.68	4.91	6.24
	8H	4.31	4.53	5.36	5.56	6.93	3.95	4.17	5.00	5.19	6.57