

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: P1427513

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

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1427513
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-BBM-K-050U-100D-L930-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - BLACK DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

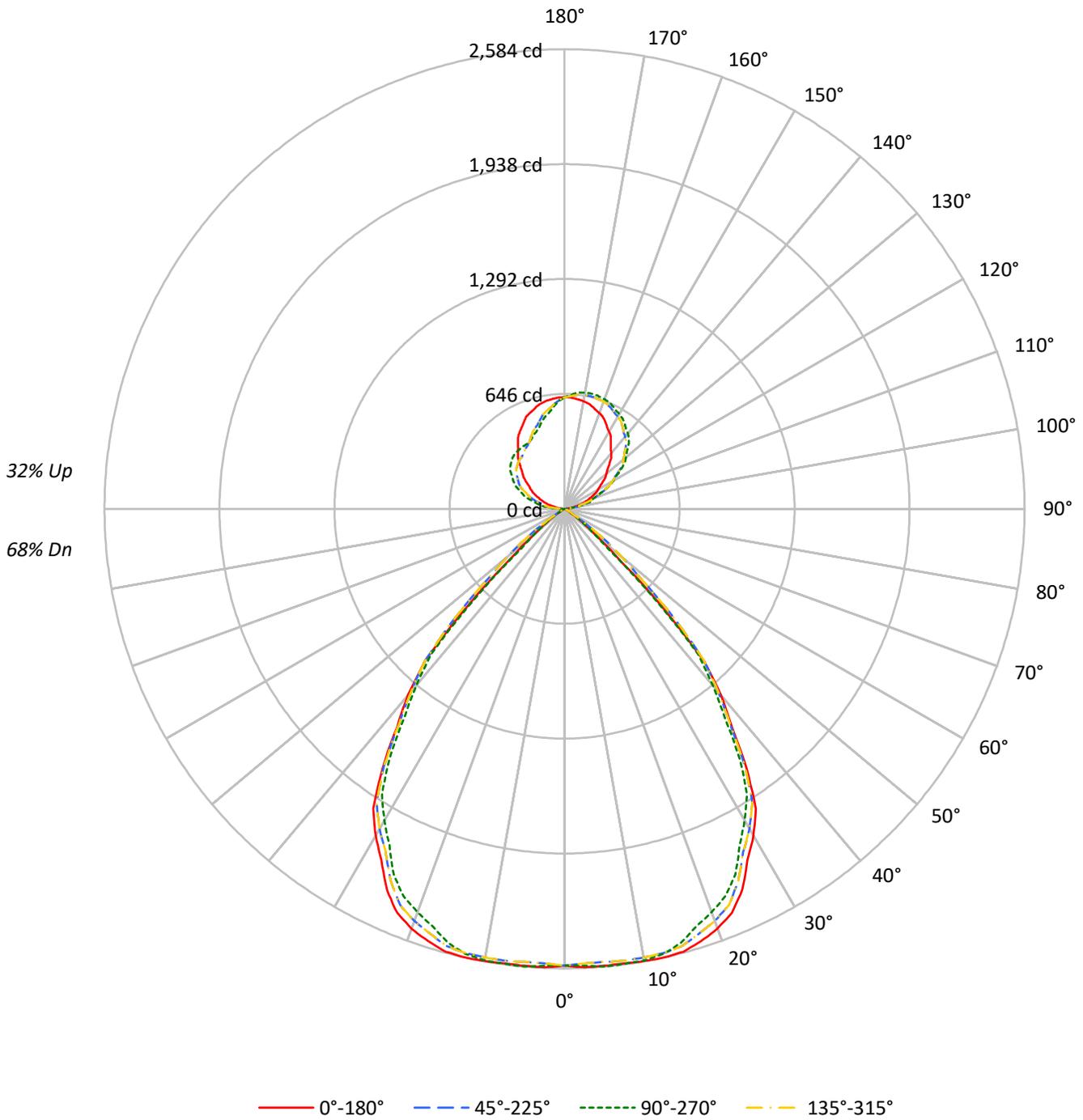
Lumens per Lamp: N/A
Luminaire Lumens: 5670.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 53
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: P1427513

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

Luminous Intensity Polar Plot





TEST NUMBER: P1427513

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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	104	101	98	95	99	96	93	91	86	84	82	77	75	74	68	67	66	62
2	97	92	87	83	92	87	83	79	79	75	73	71	68	66	64	62	60	57
3	91	83	77	72	86	79	74	70	72	68	65	65	62	60	59	57	55	52
4	85	76	69	64	80	72	67	62	66	62	58	60	57	54	55	52	50	47
5	79	69	62	57	75	66	60	55	61	56	52	56	52	49	51	48	45	43
6	74	63	56	51	70	61	55	50	56	51	47	51	47	44	47	44	42	39
7	69	58	51	46	66	56	50	45	52	47	43	48	44	40	44	41	38	36
8	65	54	47	42	62	52	45	41	48	43	39	44	40	37	41	38	35	33
9	61	50	43	38	58	48	42	38	45	39	36	41	37	34	38	35	32	30
10	57	46	40	35	54	45	39	34	42	36	33	39	34	31	36	32	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41476	41476	41476	41476
5°	41800	41863	41800	41863
10°	42326	42262	42326	42262
15°	43088	42229	43088	42229
20°	43143	41466	43143	41466
25°	42078	40429	42078	40429
30°	39554	37710	39554	37710
35°	35106	33789	35106	33789
40°	28791	27248	28791	27248
45°	17166	16109	17166	16109
50°	5358	5069	5358	5069
55°	2027	2027	2027	2027
60°	126	42	126	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: 20096 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	4.3
10°-20°	719.5	12.7
20°-30°	1058.5	18.7
30°-40°	1081.9	19.1
40°-50°	623.2	11.0
50°-60°	107.3	1.9
60°-70°	3.9	0.1
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	4.4
160°-170°	165.9	2.9
170°-180°	58.9	1.0
0°-30°	2023.6	35.7
0°-40°	3105.5	54.8
0°-60°	3835.9	67.6
0°-90°	3843.1	67.8
90°-120°	432.3	7.6
90°-150°	1355.8	23.9
90°-180°	1828.0	32.2
0°-180°	5670.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2569	2569	2569	2569	2569	
5°	2579	2583	2579	2583	2579	246
15°	2578	2526	2578	2526	2578	726
25°	2362	2269	2362	2269	2362	1078
35°	1781	1714	1781	1714	1781	1100
45°	752	706	752	706	752	582
55°	72	72	72	72	72	76
65°	0	0	0	0	0	1
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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CATALOG NUMBER: SQ2W-BBM-K-050U-100D-L930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9
2.5°	2580.2	2577.0	2573.8	2566.1	2557.0	2557.7	2568.2	2575.5	2573.2	2570.9	2573.2
5°	2579.1	2576.3	2573.4	2565.4	2555.7	2558.6	2574.0	2585.3	2584.1	2583.0	2584.1
7.5°	2577.6	2575.7	2573.7	2568.1	2561.2	2564.1	2576.8	2585.6	2582.8	2579.9	2582.8
10°	2581.7	2581.1	2580.6	2571.9	2560.4	2561.3	2574.4	2583.6	2580.7	2577.8	2580.7
12.5°	2583.8	2587.3	2590.8	2578.4	2560.5	2556.8	2567.2	2573.7	2568.6	2563.5	2568.6
15°	2577.8	2587.6	2597.3	2579.6	2552.7	2540.2	2541.9	2541.3	2533.9	2526.4	2533.9
17.5°	2549.1	2562.8	2576.5	2553.1	2517.3	2496.3	2490.0	2482.7	2472.2	2461.7	2472.2
20°	2511.0	2527.0	2543.0	2517.5	2478.0	2452.9	2442.1	2431.6	2422.5	2413.4	2422.5
22.5°	2457.6	2472.2	2486.8	2462.3	2424.7	2399.1	2385.5	2373.5	2366.2	2358.9	2366.2
25°	2362.0	2371.7	2381.4	2356.4	2319.8	2296.4	2286.1	2277.4	2273.4	2269.4	2273.4
27.5°	2226.5	2229.3	2232.0	2212.1	2184.7	2164.6	2151.8	2140.9	2135.8	2130.6	2135.8
30°	2121.6	2121.6	2121.6	2106.2	2085.7	2068.5	2054.8	2042.1	2032.4	2022.7	2032.4
32.5°	1999.3	1997.9	1996.6	1985.3	1970.6	1955.8	1940.7	1927.0	1917.3	1907.6	1917.3
35°	1781.1	1787.4	1793.7	1785.8	1773.3	1759.5	1744.7	1731.4	1722.8	1714.3	1722.8
37.5°	1544.9	1547.3	1549.7	1543.2	1533.7	1521.0	1505.0	1491.2	1484.0	1476.8	1484.0
40°	1366.0	1366.6	1367.2	1359.2	1348.3	1337.2	1325.8	1314.5	1303.6	1292.8	1303.6
42.5°	1157.3	1168.9	1180.4	1175.5	1165.1	1150.8	1132.5	1117.7	1113.2	1108.8	1113.2
45°	751.8	802.6	853.4	872.1	880.1	873.8	853.3	823.2	764.3	705.5	764.3
47.5°	377.8	441.1	504.4	548.2	585.6	574.9	516.3	456.8	394.6	332.3	394.6
50°	213.3	251.0	288.7	347.4	413.1	402.2	314.8	244.0	222.9	201.8	222.9
52.5°	142.4	159.1	175.7	223.0	280.5	276.7	211.7	159.9	148.0	136.0	148.0
55°	72.0	76.5	81.1	101.9	128.2	127.7	100.2	78.8	75.4	72.0	75.4
57.5°	24.4	30.6	36.8	46.0	56.3	56.6	46.9	38.2	32.6	27.0	32.6
60°	3.9	9.6	15.3	22.7	30.7	29.8	20.1	11.6	6.4	1.3	6.4
62.5°	0.8	2.4	4.0	10.0	17.6	17.4	9.5	3.2	1.7	0.3	1.7
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



TEST NUMBER: P1427513

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

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°	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9
2.5°	2575.5	2568.2	2557.7	2557.0	2566.1	2573.8	2577.0	2580.2	2577.0	2573.8	2566.1
5°	2585.3	2574.0	2558.6	2555.7	2565.4	2573.4	2576.3	2579.1	2576.3	2573.4	2565.4
7.5°	2585.6	2576.8	2564.1	2561.2	2568.1	2573.7	2575.7	2577.6	2575.7	2573.7	2568.1
10°	2583.6	2574.4	2561.3	2560.4	2571.9	2580.6	2581.1	2581.7	2581.1	2580.6	2571.9
12.5°	2573.7	2567.2	2556.8	2560.5	2578.4	2590.8	2587.3	2583.8	2587.3	2590.8	2578.4
15°	2541.3	2541.9	2540.2	2552.7	2579.6	2597.3	2587.6	2577.8	2587.6	2597.3	2579.6
17.5°	2482.7	2490.0	2496.3	2517.3	2553.1	2576.5	2562.8	2549.1	2562.8	2576.5	2553.1
20°	2431.6	2442.1	2452.9	2478.0	2517.5	2543.0	2527.0	2511.0	2527.0	2543.0	2517.5
22.5°	2373.5	2385.5	2399.1	2424.7	2462.3	2486.8	2472.2	2457.6	2472.2	2486.8	2462.3
25°	2277.4	2286.1	2296.4	2319.8	2356.4	2381.4	2371.7	2362.0	2371.7	2381.4	2356.4
27.5°	2140.9	2151.8	2164.6	2184.7	2212.1	2232.0	2229.3	2226.5	2229.3	2232.0	2212.1
30°	2042.1	2054.8	2068.5	2085.7	2106.2	2121.6	2121.6	2121.6	2121.6	2121.6	2106.2
32.5°	1927.0	1940.7	1955.8	1970.6	1985.3	1996.6	1997.9	1999.3	1997.9	1996.6	1985.3
35°	1731.4	1744.7	1759.5	1773.3	1785.8	1793.7	1787.4	1781.1	1787.4	1793.7	1785.8
37.5°	1491.2	1505.0	1521.0	1533.7	1543.2	1549.7	1547.3	1544.9	1547.3	1549.7	1543.2
40°	1314.5	1325.8	1337.2	1348.3	1359.2	1367.2	1366.6	1366.0	1366.6	1367.2	1359.2
42.5°	1117.7	1132.5	1150.8	1165.1	1175.5	1180.4	1168.9	1157.3	1168.9	1180.4	1175.5
45°	823.2	853.3	873.8	880.1	872.1	853.4	802.6	751.8	802.6	853.4	872.1
47.5°	456.8	516.3	574.9	585.6	548.2	504.4	441.1	377.8	441.1	504.4	548.2
50°	244.0	314.8	402.2	413.1	347.4	288.7	251.0	213.3	251.0	288.7	347.4
52.5°	159.9	211.7	276.7	280.5	223.0	175.7	159.1	142.4	159.1	175.7	223.0
55°	78.8	100.2	127.7	128.2	101.9	81.1	76.5	72.0	76.5	81.1	101.9
57.5°	38.2	46.9	56.6	56.3	46.0	36.8	30.6	24.4	30.6	36.8	46.0
60°	11.6	20.1	29.8	30.7	22.7	15.3	9.6	3.9	9.6	15.3	22.7
62.5°	3.2	9.5	17.4	17.6	10.0	4.0	2.4	0.8	2.4	4.0	10.0
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: P1427513

CATALOG NUMBER: SQ2W-BBM-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: P1427513

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9	2568.9
2.5°	2557.0	2557.7	2568.2	2575.5	2573.2	2570.9	2573.2	2575.5	2568.2	2557.7	2557.0
5°	2555.7	2558.6	2574.0	2585.3	2584.1	2583.0	2584.1	2585.3	2574.0	2558.6	2555.7
7.5°	2561.2	2564.1	2576.8	2585.6	2582.8	2579.9	2582.8	2585.6	2576.8	2564.1	2561.2
10°	2560.4	2561.3	2574.4	2583.6	2580.7	2577.8	2580.7	2583.6	2574.4	2561.3	2560.4
12.5°	2560.5	2556.8	2567.2	2573.7	2568.6	2563.5	2568.6	2573.7	2567.2	2556.8	2560.5
15°	2552.7	2540.2	2541.9	2541.3	2533.9	2526.4	2533.9	2541.3	2541.9	2540.2	2552.7
17.5°	2517.3	2496.3	2490.0	2482.7	2472.2	2461.7	2472.2	2482.7	2490.0	2496.3	2517.3
20°	2478.0	2452.9	2442.1	2431.6	2422.5	2413.4	2422.5	2431.6	2442.1	2452.9	2478.0
22.5°	2424.7	2399.1	2385.5	2373.5	2366.2	2358.9	2366.2	2373.5	2385.5	2399.1	2424.7
25°	2319.8	2296.4	2286.1	2277.4	2273.4	2269.4	2273.4	2277.4	2286.1	2296.4	2319.8
27.5°	2184.7	2164.6	2151.8	2140.9	2135.8	2130.6	2135.8	2140.9	2151.8	2164.6	2184.7
30°	2085.7	2068.5	2054.8	2042.1	2032.4	2022.7	2032.4	2042.1	2054.8	2068.5	2085.7
32.5°	1970.6	1955.8	1940.7	1927.0	1917.3	1907.6	1917.3	1927.0	1940.7	1955.8	1970.6
35°	1773.3	1759.5	1744.7	1731.4	1722.8	1714.3	1722.8	1731.4	1744.7	1759.5	1773.3
37.5°	1533.7	1521.0	1505.0	1491.2	1484.0	1476.8	1484.0	1491.2	1505.0	1521.0	1533.7
40°	1348.3	1337.2	1325.8	1314.5	1303.6	1292.8	1303.6	1314.5	1325.8	1337.2	1348.3
42.5°	1165.1	1150.8	1132.5	1117.7	1113.2	1108.8	1113.2	1117.7	1132.5	1150.8	1165.1
45°	880.1	873.8	853.3	823.2	764.3	705.5	764.3	823.2	853.3	873.8	880.1
47.5°	585.6	574.9	516.3	456.8	394.6	332.3	394.6	456.8	516.3	574.9	585.6
50°	413.1	402.2	314.8	244.0	222.9	201.8	222.9	244.0	314.8	402.2	413.1
52.5°	280.5	276.7	211.7	159.9	148.0	136.0	148.0	159.9	211.7	276.7	280.5
55°	128.2	127.7	100.2	78.8	75.4	72.0	75.4	78.8	100.2	127.7	128.2
57.5°	56.3	56.6	46.9	38.2	32.6	27.0	32.6	38.2	46.9	56.6	56.3
60°	30.7	29.8	20.1	11.6	6.4	1.3	6.4	11.6	20.1	29.8	30.7
62.5°	17.6	17.4	9.5	3.2	1.7	0.3	1.7	3.2	9.5	17.4	17.6
65°	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.4	1.0	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: P1427513

CATALOG NUMBER: SQ2W-BBM-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: P1427513

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2568.9	2568.9	2568.9	2568.9
2.5°	2566.1	2573.8	2577.0	2580.2
5°	2565.4	2573.4	2576.3	2579.1
7.5°	2568.1	2573.7	2575.7	2577.6
10°	2571.9	2580.6	2581.1	2581.7
12.5°	2578.4	2590.8	2587.3	2583.8
15°	2579.6	2597.3	2587.6	2577.8
17.5°	2553.1	2576.5	2562.8	2549.1
20°	2517.5	2543.0	2527.0	2511.0
22.5°	2462.3	2486.8	2472.2	2457.6
25°	2356.4	2381.4	2371.7	2362.0
27.5°	2212.1	2232.0	2229.3	2226.5
30°	2106.2	2121.6	2121.6	2121.6
32.5°	1985.3	1996.6	1997.9	1999.3
35°	1785.8	1793.7	1787.4	1781.1
37.5°	1543.2	1549.7	1547.3	1544.9
40°	1359.2	1367.2	1366.6	1366.0
42.5°	1175.5	1180.4	1168.9	1157.3
45°	872.1	853.4	802.6	751.8
47.5°	548.2	504.4	441.1	377.8
50°	347.4	288.7	251.0	213.3
52.5°	223.0	175.7	159.1	142.4
55°	101.9	81.1	76.5	72.0
57.5°	46.0	36.8	30.6	24.4
60°	22.7	15.3	9.6	3.9
62.5°	10.0	4.0	2.4	0.8
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: P1427513

CATALOG NUMBER: SQ2W-BBM-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: P1427513
 CATALOG NUMBER: SQ2W-BBM-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	0.17	0.97	0.99	1.79	2.80	0.39	1.19	1.22	2.01	3.02
	3H	0.00	0.69	0.82	1.52	2.56	0.20	0.91	1.04	1.74	2.78
	4H	0.00	0.54	0.73	1.38	2.43	0.10	0.76	0.95	1.60	2.65
	6H	0.00	0.38	0.64	1.22	2.28	0.00	0.60	0.86	1.44	2.50
	8H	0.00	0.29	0.59	1.15	2.21	0.00	0.51	0.81	1.37	2.43
	12H	0.00	0.20	0.53	1.05	2.13	0.00	0.42	0.75	1.27	2.36
4H	2H	0.00	0.55	0.75	1.39	2.44	0.11	0.77	0.97	1.61	2.66
	3H	0.00	0.23	0.56	1.10	2.17	0.00	0.45	0.78	1.32	2.39
	4H	0.00	0.07	0.46	0.94	2.03	0.00	0.29	0.68	1.16	2.25
	6H	0.00	0.00	0.37	0.78	1.88	0.00	0.11	0.59	1.00	2.10
	8H	0.00	0.00	0.30	0.68	1.79	0.00	0.02	0.52	0.90	2.01
	12H	0.00	0.00	0.25	0.59	1.70	0.00	0.00	0.47	0.81	1.92
8H	4H	0.00	0.00	0.30	0.68	1.79	0.00	0.02	0.52	0.90	2.01
	6H	0.00	0.00	0.21	0.53	1.64	0.00	0.00	0.43	0.75	1.86
	8H	0.00	0.00	0.15	0.43	1.55	0.00	0.00	0.38	0.65	1.77
	12H	0.00	0.00	0.09	0.32	1.49	0.00	0.00	0.31	0.54	1.71
12H	4H	0.00	0.00	0.25	0.59	1.70	0.00	0.00	0.47	0.81	1.92
	6H	0.00	0.00	0.16	0.43	1.55	0.00	0.00	0.38	0.65	1.77
	8H	0.00	0.00	0.09	0.32	1.49	0.00	0.00	0.31	0.54	1.71