

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: P1428523

Luminaire Tested: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428523  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

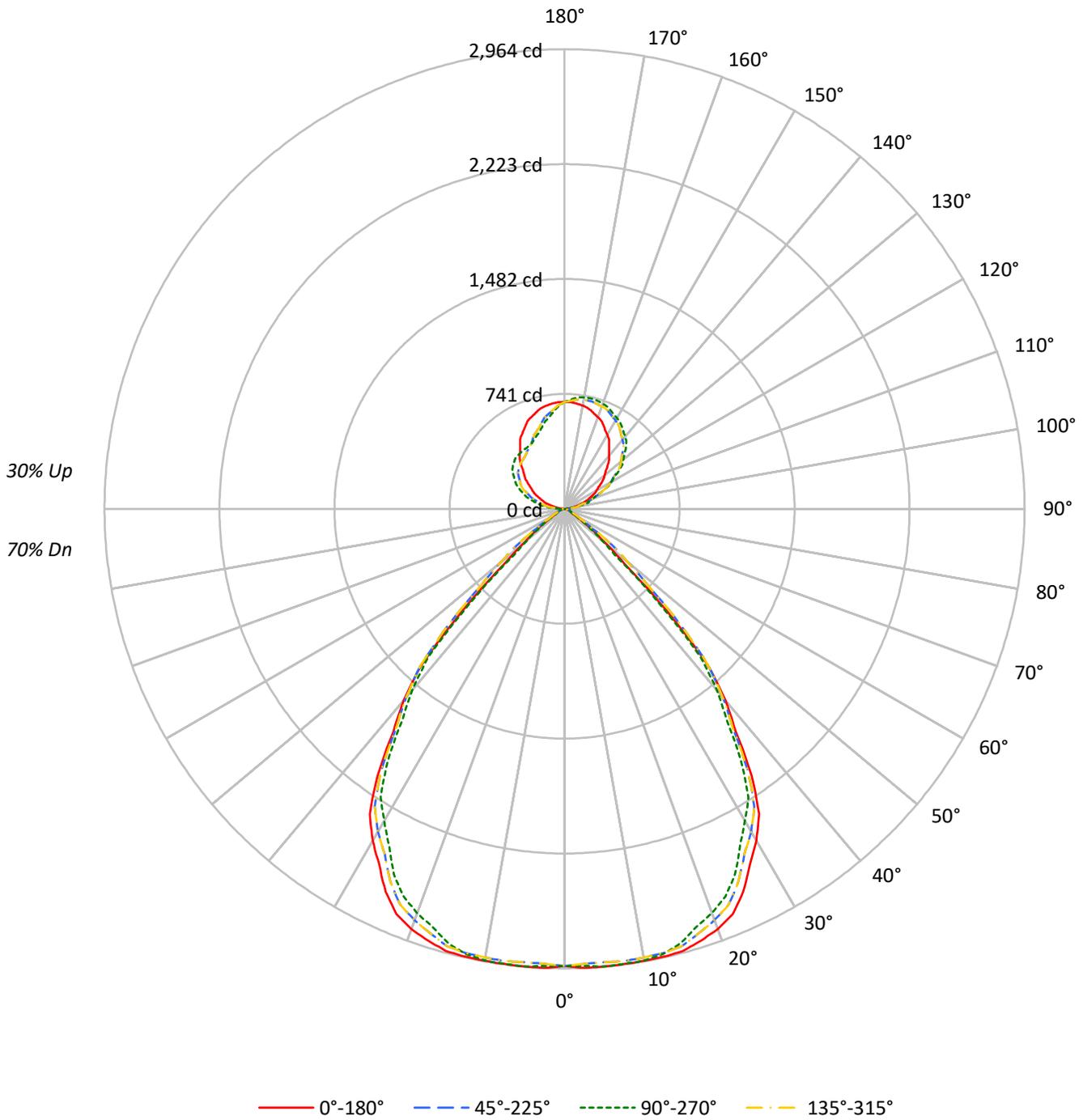
Lumens per Lamp: N/A  
Luminaire Lumens: 6625.2 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70		
1	105	101	98	95	99	96	93	91	86	84	83	78	76	75	69	68	67	64		
2	98	91	86	82	92	87	83	79	79	76	73	71	69	67	64	63	61	58		
3	91	83	77	72	86	79	74	69	72	68	65	66	62	60	60	57	55	52		
4	85	75	69	64	80	72	66	62	66	61	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	60	54	49	56	51	47	51	47	44	47	44	41	39		
7	69	58	51	46	65	56	49	45	52	46	42	48	43	40	44	41	38	36		
8	64	53	46	42	61	51	45	41	48	42	39	44	40	37	41	37	35	33		
9	60	49	42	38	58	48	41	37	44	39	35	41	37	34	38	35	32	30		
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	36	32	30	28		

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

	0°	90°	180°	270°
0°	47604	47604	47604	47604
5°	48037	48014	48037	48014
10°	48523	48500	48523	48500
15°	49330	48455	49330	48455
20°	49566	47671	49566	47671
25°	48547	46331	48547	46331
30°	46060	43320	46060	43320
35°	41425	39085	41425	39085
40°	33961	32173	33961	32173
45°	21235	19945	21235	19945
50°	8307	7598	8307	7598
55°	4098	4059	4098	4059
60°	1918	1734	1918	1734
65°	1727	1620	1727	1620
70°	1666	1600	1666	1600
75°	1678	1497	1678	1497
80°	1581	1441	1581	1441
85°	1575	1315	1575	1315

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 30°  
 Vertical Angle: 45°  
 Luminance: 24171 cd/sqm



TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.9	4.3
10°-20°	824.3	12.4
20°-30°	1218.8	18.4
30°-40°	1261.0	19.0
40°-50°	758.5	11.4
50°-60°	181.3	2.7
60°-70°	49.6	0.7
70°-80°	27.8	0.4
80°-90°	11.6	0.2
90°-100°	54.8	0.8
100°-110°	159.8	2.4
110°-120°	260.8	3.9
120°-130°	330.9	5.0
130°-140°	354.1	5.3
140°-150°	330.7	5.0
150°-160°	272.1	4.1
160°-170°	182.5	2.8
170°-180°	64.8	1.0
0°-30°	2325.0	35.1
0°-40°	3586.0	54.1
0°-60°	4525.8	68.3
0°-90°	4614.7	69.7
90°-120°	475.4	7.2
90°-150°	1491.1	22.5
90°-180°	2010.0	30.3
0°-180°	6625.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2948	2948	2948	2948	2948	
5°	2964	2962	2964	2962	2964	283
15°	2951	2899	2951	2899	2951	832
25°	2725	2601	2725	2601	2725	1246
35°	2102	1983	2102	1983	2102	1290
45°	930	874	930	874	930	719
55°	146	144	146	144	146	146
65°	45	42	45	42	45	45
75°	27	24	27	24	27	28
85°	8	7	8	7	8	9
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	



TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4
2.5°	2963.1	2959.6	2956.0	2947.2	2936.7	2936.9	2948.0	2955.7	2953.1	2950.6	2953.1
5°	2963.9	2959.5	2955.1	2945.1	2933.1	2936.0	2953.6	2966.3	2964.4	2962.5	2964.4
7.5°	2960.8	2958.9	2957.0	2949.7	2940.5	2942.6	2955.9	2965.2	2962.3	2959.4	2962.3
10°	2959.7	2960.3	2960.9	2951.2	2938.0	2938.3	2952.1	2962.0	2960.2	2958.3	2960.2
12.5°	2958.6	2963.7	2968.9	2955.7	2936.5	2932.3	2943.1	2950.1	2945.7	2941.3	2945.7
15°	2951.2	2961.3	2971.3	2953.6	2926.5	2913.0	2913.0	2911.5	2905.2	2898.9	2905.2
17.5°	2919.8	2931.8	2943.7	2919.6	2883.6	2860.7	2851.0	2841.9	2834.2	2826.5	2834.2
20°	2884.8	2896.7	2908.6	2880.1	2838.0	2809.1	2793.4	2780.8	2777.7	2774.5	2777.7
22.5°	2829.4	2842.3	2855.2	2824.7	2779.5	2748.4	2731.2	2717.0	2711.8	2706.7	2711.8
25°	2725.1	2735.1	2745.2	2713.3	2667.4	2638.2	2625.6	2614.5	2607.6	2600.7	2607.6
27.5°	2586.0	2591.5	2597.0	2566.2	2523.2	2494.6	2480.3	2467.1	2457.6	2448.0	2457.6
30°	2470.6	2473.2	2475.7	2450.9	2416.9	2390.5	2371.7	2353.8	2338.7	2323.6	2338.7
32.5°	2333.8	2336.3	2338.8	2317.1	2287.1	2263.3	2245.4	2229.0	2217.0	2204.9	2217.0
35°	2101.7	2100.5	2099.2	2085.3	2067.0	2047.6	2026.8	2008.1	1995.6	1983.0	1995.6
37.5°	1811.4	1813.2	1814.9	1804.5	1790.1	1774.7	1758.4	1743.0	1730.3	1717.6	1730.3
40°	1611.3	1612.5	1613.8	1605.2	1593.2	1575.3	1551.5	1532.8	1529.6	1526.5	1529.6
42.5°	1367.1	1385.9	1404.7	1397.1	1380.7	1363.2	1344.9	1327.5	1312.8	1298.1	1312.8
45°	930.0	987.2	1044.4	1058.6	1058.6	1047.7	1025.7	994.1	933.8	873.5	933.8
47.5°	525.2	590.3	655.4	698.1	733.4	718.4	653.1	585.8	512.5	439.3	512.5
50°	330.7	374.7	418.7	473.5	531.9	515.9	425.4	351.5	327.0	302.5	327.0
52.5°	234.6	257.0	279.4	331.0	392.5	385.0	308.6	248.1	235.1	222.2	235.1
55°	145.6	153.7	161.9	187.0	217.8	215.9	181.4	154.2	149.2	144.2	149.2
57.5°	86.5	94.9	103.3	114.5	126.5	126.5	114.5	103.5	95.5	87.6	95.5
60°	59.4	66.3	73.2	82.4	92.5	91.2	78.7	67.5	60.6	53.7	60.6
62.5°	51.4	54.3	57.2	64.4	72.9	72.1	62.1	54.0	51.6	49.2	51.6
65°	45.2	45.9	46.5	47.1	47.7	47.4	46.2	44.9	43.7	42.4	43.7
67.5°	39.9	40.5	41.1	40.9	40.4	40.1	40.0	39.6	38.4	37.3	38.4
70°	35.3	36.0	36.6	36.7	36.7	36.4	35.8	35.2	34.6	33.9	34.6
72.5°	31.9	32.6	33.2	33.0	32.5	32.2	32.0	31.7	30.5	29.4	30.5
75°	26.9	26.9	26.9	26.9	26.9	26.5	25.9	25.3	24.7	24.0	24.7
77.5°	20.4	21.0	21.6	21.3	20.7	20.4	20.4	20.2	19.6	18.9	19.6
80°	17.0	17.6	18.2	17.9	17.3	17.0	17.0	16.8	16.2	15.5	16.2
82.5°	13.6	13.7	13.8	13.8	13.6	13.6	13.6	13.4	12.8	12.2	12.8
85°	8.5	8.5	8.5	8.0	7.4	7.1	7.1	7.1	7.1	7.1	7.1
87.5°	2.7	3.7	4.9	5.2	5.2	5.0	5.0	5.2	5.3	5.3	5.3
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



TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**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



TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4
2.5°	2955.7	2948.0	2936.9	2936.7	2947.2	2956.0	2959.6	2963.1	2959.6	2956.0	2947.2
5°	2966.3	2953.6	2936.0	2933.1	2945.1	2955.1	2959.5	2963.9	2959.5	2955.1	2945.1
7.5°	2965.2	2955.9	2942.6	2940.5	2949.7	2957.0	2958.9	2960.8	2958.9	2957.0	2949.7
10°	2962.0	2952.1	2938.3	2938.0	2951.2	2960.9	2960.3	2959.7	2960.3	2960.9	2951.2
12.5°	2950.1	2943.1	2932.3	2936.5	2955.7	2968.9	2963.7	2958.6	2963.7	2968.9	2955.7
15°	2911.5	2913.0	2913.0	2926.5	2953.6	2971.3	2961.3	2951.2	2961.3	2971.3	2953.6
17.5°	2841.9	2851.0	2860.7	2883.6	2919.6	2943.7	2931.8	2919.8	2931.8	2943.7	2919.6
20°	2780.8	2793.4	2809.1	2838.0	2880.1	2908.6	2896.7	2884.8	2896.7	2908.6	2880.1
22.5°	2717.0	2731.2	2748.4	2779.5	2824.7	2855.2	2842.3	2829.4	2842.3	2855.2	2824.7
25°	2614.5	2625.6	2638.2	2667.4	2713.3	2745.2	2735.1	2725.1	2735.1	2745.2	2713.3
27.5°	2467.1	2480.3	2494.6	2523.2	2566.2	2597.0	2591.5	2586.0	2591.5	2597.0	2566.2
30°	2353.8	2371.7	2390.5	2416.9	2450.9	2475.7	2473.2	2470.6	2473.2	2475.7	2450.9
32.5°	2229.0	2245.4	2263.3	2287.1	2317.1	2338.8	2336.3	2333.8	2336.3	2338.8	2317.1
35°	2008.1	2026.8	2047.6	2067.0	2085.3	2099.2	2100.5	2101.7	2100.5	2099.2	2085.3
37.5°	1743.0	1758.4	1774.7	1790.1	1804.5	1814.9	1813.2	1811.4	1813.2	1814.9	1804.5
40°	1532.8	1551.5	1575.3	1593.2	1605.2	1613.8	1612.5	1611.3	1612.5	1613.8	1605.2
42.5°	1327.5	1344.9	1363.2	1380.7	1397.1	1404.7	1385.9	1367.1	1385.9	1404.7	1397.1
45°	994.1	1025.7	1047.7	1058.6	1058.6	1044.4	987.2	930.0	987.2	1044.4	1058.6
47.5°	585.8	653.1	718.4	733.4	698.1	655.4	590.3	525.2	590.3	655.4	698.1
50°	351.5	425.4	515.9	531.9	473.5	418.7	374.7	330.7	374.7	418.7	473.5
52.5°	248.1	308.6	385.0	392.5	331.0	279.4	257.0	234.6	257.0	279.4	331.0
55°	154.2	181.4	215.9	217.8	187.0	161.9	153.7	145.6	153.7	161.9	187.0
57.5°	103.5	114.5	126.5	126.5	114.5	103.3	94.9	86.5	94.9	103.3	114.5
60°	67.5	78.7	91.2	92.5	82.4	73.2	66.3	59.4	66.3	73.2	82.4
62.5°	54.0	62.1	72.1	72.9	64.4	57.2	54.3	51.4	54.3	57.2	64.4
65°	44.9	46.2	47.4	47.7	47.1	46.5	45.9	45.2	45.9	46.5	47.1
67.5°	39.6	40.0	40.1	40.4	40.9	41.1	40.5	39.9	40.5	41.1	40.9
70°	35.2	35.8	36.4	36.7	36.7	36.6	36.0	35.3	36.0	36.6	36.7
72.5°	31.7	32.0	32.2	32.5	33.0	33.2	32.6	31.9	32.6	33.2	33.0
75°	25.3	25.9	26.5	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
77.5°	20.2	20.4	20.4	20.7	21.3	21.6	21.0	20.4	21.0	21.6	21.3
80°	16.8	17.0	17.0	17.3	17.9	18.2	17.6	17.0	17.6	18.2	17.9
82.5°	13.4	13.6	13.6	13.6	13.8	13.8	13.7	13.6	13.7	13.8	13.8
85°	7.1	7.1	7.1	7.4	8.0	8.5	8.5	8.5	8.5	8.5	8.0
87.5°	5.2	5.0	5.0	5.2	5.2	4.9	3.7	2.7	3.7	4.8	5.5
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: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-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: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4	2948.4
2.5°	2936.7	2936.9	2948.0	2955.7	2953.1	2950.6	2953.1	2955.7	2948.0	2936.9	2936.7
5°	2933.1	2936.0	2953.6	2966.3	2964.4	2962.5	2964.4	2966.3	2953.6	2936.0	2933.1
7.5°	2940.5	2942.6	2955.9	2965.2	2962.3	2959.4	2962.3	2965.2	2955.9	2942.6	2940.5
10°	2938.0	2938.3	2952.1	2962.0	2960.2	2958.3	2960.2	2962.0	2952.1	2938.3	2938.0
12.5°	2936.5	2932.3	2943.1	2950.1	2945.7	2941.3	2945.7	2950.1	2943.1	2932.3	2936.5
15°	2926.5	2913.0	2913.0	2911.5	2905.2	2898.9	2905.2	2911.5	2913.0	2913.0	2926.5
17.5°	2883.6	2860.7	2851.0	2841.9	2834.2	2826.5	2834.2	2841.9	2851.0	2860.7	2883.6
20°	2838.0	2809.1	2793.4	2780.8	2777.7	2774.5	2777.7	2780.8	2793.4	2809.1	2838.0
22.5°	2779.5	2748.4	2731.2	2717.0	2711.8	2706.7	2711.8	2717.0	2731.2	2748.4	2779.5
25°	2667.4	2638.2	2625.6	2614.5	2607.6	2600.7	2607.6	2614.5	2625.6	2638.2	2667.4
27.5°	2523.2	2494.6	2480.3	2467.1	2457.6	2448.0	2457.6	2467.1	2480.3	2494.6	2523.2
30°	2416.9	2390.5	2371.7	2353.8	2338.7	2323.6	2338.7	2353.8	2371.7	2390.5	2416.9
32.5°	2287.1	2263.3	2245.4	2229.0	2217.0	2204.9	2217.0	2229.0	2245.4	2263.3	2287.1
35°	2067.0	2047.6	2026.8	2008.1	1995.6	1983.0	1995.6	2008.1	2026.8	2047.6	2067.0
37.5°	1790.1	1774.7	1758.4	1743.0	1730.3	1717.6	1730.3	1743.0	1758.4	1774.7	1790.1
40°	1593.2	1575.3	1551.5	1532.8	1529.6	1526.5	1529.6	1532.8	1551.5	1575.3	1593.2
42.5°	1380.7	1363.2	1344.9	1327.5	1312.8	1298.1	1312.8	1327.5	1344.9	1363.2	1380.7
45°	1058.6	1047.7	1025.7	994.1	933.8	873.5	933.8	994.1	1025.7	1047.7	1058.6
47.5°	733.4	718.4	653.1	585.8	512.5	439.3	512.5	585.8	653.1	718.4	733.4
50°	531.9	515.9	425.4	351.5	327.0	302.5	327.0	351.5	425.4	515.9	531.9
52.5°	392.5	385.0	308.6	248.1	235.1	222.2	235.1	248.1	308.6	385.0	392.5
55°	217.8	215.9	181.4	154.2	149.2	144.2	149.2	154.2	181.4	215.9	217.8
57.5°	126.5	126.5	114.5	103.5	95.5	87.6	95.5	103.5	114.5	126.5	126.5
60°	92.5	91.2	78.7	67.5	60.6	53.7	60.6	67.5	78.7	91.2	92.5
62.5°	72.9	72.1	62.1	54.0	51.6	49.2	51.6	54.0	62.1	72.1	72.9
65°	47.7	47.4	46.2	44.9	43.7	42.4	43.7	44.9	46.2	47.4	47.7
67.5°	40.4	40.1	40.0	39.6	38.4	37.3	38.4	39.6	40.0	40.1	40.4
70°	36.7	36.4	35.8	35.2	34.6	33.9	34.6	35.2	35.8	36.4	36.7
72.5°	32.5	32.2	32.0	31.7	30.5	29.4	30.5	31.7	32.0	32.2	32.5
75°	26.9	26.5	25.9	25.3	24.7	24.0	24.7	25.3	25.9	26.5	26.9
77.5°	20.7	20.4	20.4	20.2	19.6	18.9	19.6	20.2	20.4	20.4	20.7
80°	17.3	17.0	17.0	16.8	16.2	15.5	16.2	16.8	17.0	17.0	17.3
82.5°	13.6	13.6	13.6	13.4	12.8	12.2	12.8	13.4	13.6	13.6	13.6
85°	7.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.4
87.5°	5.7	6.4	7.4	8.0	8.5	8.2	8.5	8.0	7.4	6.4	5.7
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	20.9	16.0	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	40.3	32.1	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	74.4	64.7	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	112.8	99.7	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	135.6	123.1	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	158.4	142.0	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	190.6	173.2	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	243.4	228.8	228.8



TEST NUMBER: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-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: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2948.4	2948.4	2948.4	2948.4
2.5°	2947.2	2956.0	2959.6	2963.1
5°	2945.1	2955.1	2959.5	2963.9
7.5°	2949.7	2957.0	2958.9	2960.8
10°	2951.2	2960.9	2960.3	2959.7
12.5°	2955.7	2968.9	2963.7	2958.6
15°	2953.6	2971.3	2961.3	2951.2
17.5°	2919.6	2943.7	2931.8	2919.8
20°	2880.1	2908.6	2896.7	2884.8
22.5°	2824.7	2855.2	2842.3	2829.4
25°	2713.3	2745.2	2735.1	2725.1
27.5°	2566.2	2597.0	2591.5	2586.0
30°	2450.9	2475.7	2473.2	2470.6
32.5°	2317.1	2338.8	2336.3	2333.8
35°	2085.3	2099.2	2100.5	2101.7
37.5°	1804.5	1814.9	1813.2	1811.4
40°	1605.2	1613.8	1612.5	1611.3
42.5°	1397.1	1404.7	1385.9	1367.1
45°	1058.6	1044.4	987.2	930.0
47.5°	698.1	655.4	590.3	525.2
50°	473.5	418.7	374.7	330.7
52.5°	331.0	279.4	257.0	234.6
55°	187.0	161.9	153.7	145.6
57.5°	114.5	103.3	94.9	86.5
60°	82.4	73.2	66.3	59.4
62.5°	64.4	57.2	54.3	51.4
65°	47.1	46.5	45.9	45.2
67.5°	40.9	41.1	40.5	39.9
70°	36.7	36.6	36.0	35.3
72.5°	33.0	33.2	32.6	31.9
75°	26.9	26.9	26.9	26.9
77.5°	21.3	21.6	21.0	20.4
80°	17.9	18.2	17.6	17.0
82.5°	13.8	13.8	13.7	13.6
85°	8.0	8.5	8.5	8.5
87.5°	5.5	4.8	3.7	2.7
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: P1428523

CATALOG NUMBER: SQ2W-WBM-K-050U-100D-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: P1428523  
 CATALOG NUMBER: SQ2W-WBM-K-050U-100D-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	7.09	7.94	7.90	8.73	9.71	7.08	7.92	7.89	8.72	9.69
	3H	7.79	8.54	8.61	9.34	10.35	7.71	8.46	8.53	9.26	10.27
	4H	8.16	8.86	8.99	9.67	10.69	8.02	8.72	8.85	9.53	10.55
	6H	8.44	9.07	9.28	9.90	10.93	8.26	8.90	9.10	9.72	10.75
	8H	8.56	9.16	9.41	10.00	11.03	8.36	8.96	9.21	9.80	10.83
	12H	8.64	9.21	9.49	10.05	11.09	8.41	8.99	9.27	9.82	10.87
4H	2H	7.20	7.90	8.04	8.71	9.73	7.19	7.88	8.02	8.70	9.72
	3H	8.15	8.72	8.99	9.57	10.60	8.06	8.63	8.91	9.49	10.51
	4H	8.66	9.17	9.51	10.02	11.08	8.51	9.02	9.37	9.87	10.93
	6H	9.09	9.53	9.96	10.40	11.46	8.89	9.33	9.76	10.20	11.27
	8H	9.27	9.69	10.15	10.55	11.63	9.05	9.46	9.93	10.33	11.40
	12H	9.40	9.77	10.30	10.66	11.74	9.15	9.51	10.04	10.40	11.48
8H	4H	8.78	9.19	9.65	10.05	11.13	8.64	9.05	9.52	9.92	10.99
	6H	9.35	9.69	10.25	10.60	11.67	9.16	9.50	10.06	10.41	11.48
	8H	9.64	9.94	10.55	10.84	11.93	9.42	9.72	10.34	10.63	11.72
	12H	9.86	10.12	10.77	11.02	12.16	9.60	9.86	10.51	10.75	11.90
12H	4H	8.76	9.12	9.65	10.01	11.09	8.63	8.99	9.52	9.88	10.96
	6H	9.39	9.68	10.30	10.59	11.68	9.20	9.50	10.12	10.41	11.50
	8H	9.71	9.98	10.62	10.87	12.02	9.51	9.77	10.42	10.66	11.81