

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: P1428365

Luminaire Tested: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428365
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE WAVES LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

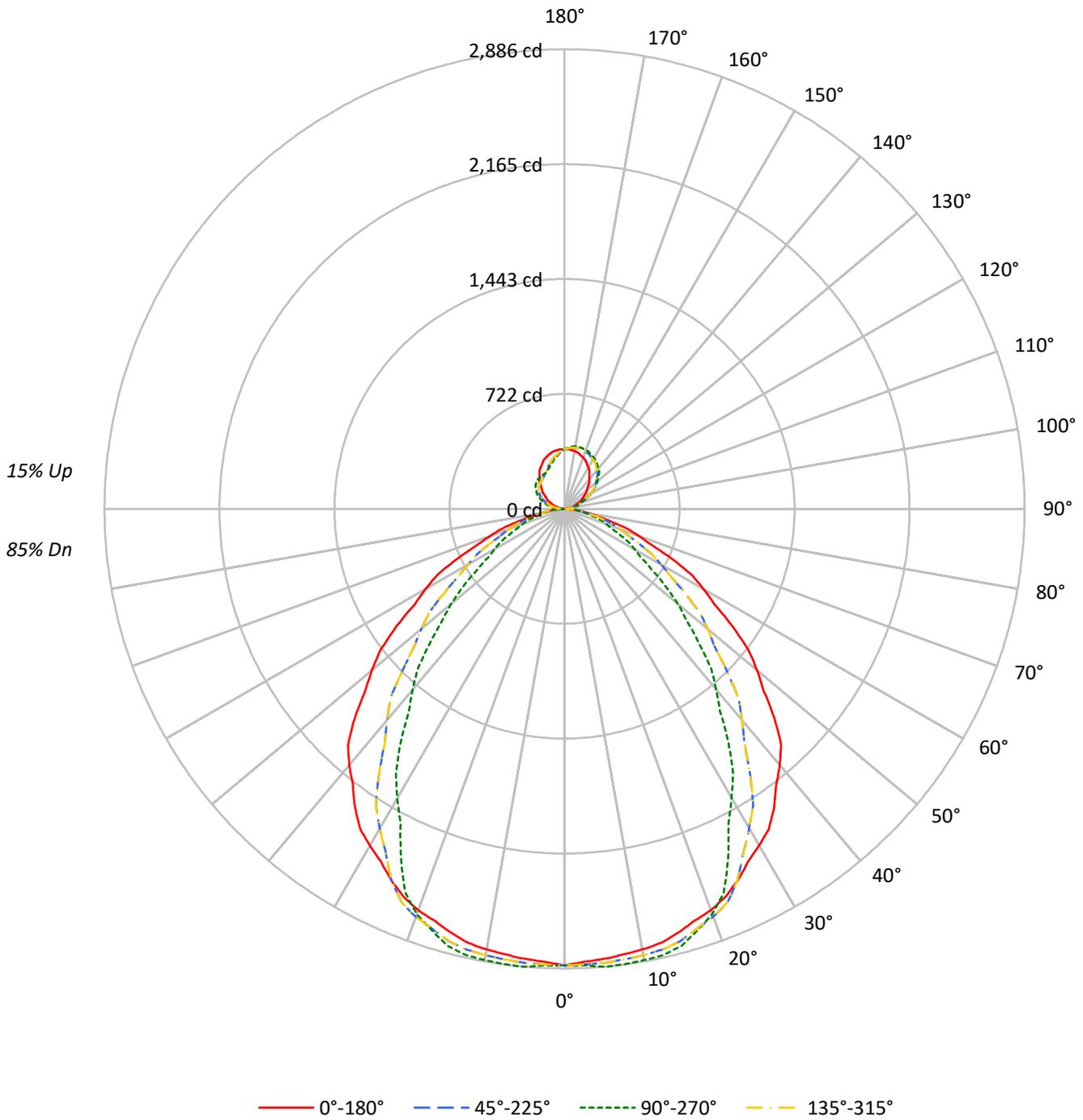
Lumens per Lamp: N/A
Luminaire Lumens: 7458.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.7
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: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	89	89	89	85
1	107	103	99	95	103	99	96	93	92	89	87	86	84	82	80	78	77	74
2	98	91	85	80	94	88	82	78	82	77	74	76	73	70	72	69	66	63
3	90	81	73	68	86	78	71	66	73	68	63	69	64	60	64	61	57	55
4	83	72	64	58	80	70	63	57	66	60	55	62	57	53	58	54	50	48
5	77	65	57	51	74	63	56	50	59	53	48	56	51	46	53	48	45	42
6	71	59	51	45	68	57	50	44	54	47	43	51	45	41	48	43	40	37
7	66	54	46	40	64	52	45	39	49	43	38	47	41	37	44	39	36	34
8	62	49	41	36	59	48	40	35	45	39	34	43	37	33	41	36	32	30
9	58	45	38	32	56	44	37	32	42	36	31	40	34	30	38	33	29	27
10	54	42	34	30	52	41	34	29	39	33	28	37	31	28	35	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46291	46291	46291	46291
5°	45982	46777	45982	46777
10°	46066	47184	46066	47184
15°	46052	47468	46052	47468
20°	46071	46540	46071	46540
25°	45823	43245	45823	43245
30°	45510	39097	45510	39097
35°	45156	35307	45156	35307
40°	44256	31193	44256	31193
45°	42522	27247	42522	27247
50°	39573	23320	39573	23320
55°	36202	18908	36202	18908
60°	32449	16313	32449	16313
65°	28374	14498	28374	14498
70°	23202	13147	23202	13147
75°	18053	12096	18053	12096
80°	13454	10665	13454	10665
85°	9114	6076	9114	6076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42522 cd/sqm



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	3.7
10°-20°	791.0	10.6
20°-30°	1164.1	15.6
30°-40°	1272.8	17.1
40°-50°	1141.8	15.3
50°-60°	851.7	11.4
60°-70°	538.3	7.2
70°-80°	266.7	3.6
80°-90°	64.0	0.9
90°-100°	29.8	0.4
100°-110°	87.0	1.2
110°-120°	142.0	1.9
120°-130°	180.2	2.4
130°-140°	192.8	2.6
140°-150°	180.0	2.4
150°-160°	148.1	2.0
160°-170°	99.3	1.3
170°-180°	35.3	0.5
0°-30°	2228.2	29.9
0°-40°	3501.0	46.9
0°-60°	5494.5	73.7
0°-90°	6363.5	85.3
90°-120°	258.8	3.5
90°-150°	811.7	10.9
90°-180°	1094.0	14.7
0°-180°	7458.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2867	2867	2867	2867	2867	
5°	2837	2886	2837	2886	2837	270
15°	2755	2840	2755	2840	2755	778
25°	2572	2428	2572	2428	2572	1185
35°	2291	1791	2291	1791	2291	1429
45°	1862	1193	1862	1193	1862	1428
55°	1286	672	1286	672	1286	1148
65°	743	380	743	380	743	736
75°	289	194	289	194	289	319
85°	49	33	49	33	49	62
90°	1	8	1	16	1	3
95°	12	9	12	51	12	14
105°	55	89	55	122	55	59
115°	106	147	106	181	106	104
125°	157	233	157	222	157	140
135°	213	305	213	246	213	165
145°	272	351	272	251	272	170
155°	323	382	323	260	323	149
165°	357	398	357	300	357	101
175°	374	390	374	352	374	35
180°	375	375	375	375	375	



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2847.4	2863.9	2880.5	2876.6	2865.9	2861.0	2862.0	2863.5	2866.4	2869.3	2866.4
5°	2837.1	2857.7	2878.3	2875.3	2864.4	2859.5	2860.7	2864.4	2875.3	2886.2	2875.3
7.5°	2822.9	2843.7	2864.6	2863.6	2855.4	2853.3	2857.5	2863.2	2873.9	2884.6	2873.9
10°	2809.8	2831.6	2853.5	2853.5	2846.2	2845.6	2851.6	2858.6	2868.3	2878.0	2868.3
12.5°	2792.3	2815.1	2837.9	2839.6	2834.3	2835.1	2842.2	2849.9	2859.6	2869.3	2859.6
15°	2755.1	2779.4	2803.7	2808.9	2807.6	2811.3	2819.8	2827.7	2833.7	2839.8	2833.7
17.5°	2712.0	2736.3	2760.6	2765.3	2763.6	2763.9	2766.1	2768.4	2771.4	2774.3	2771.4
20°	2681.4	2705.7	2730.0	2733.3	2729.7	2723.6	2715.1	2708.7	2708.7	2708.7	2708.7
22.5°	2637.7	2663.9	2690.2	2690.3	2681.8	2666.1	2643.0	2623.8	2616.0	2608.2	2616.0
25°	2572.2	2597.7	2623.2	2611.3	2587.1	2551.3	2503.9	2463.9	2445.7	2427.5	2445.7
27.5°	2495.7	2516.4	2537.0	2506.1	2458.1	2400.4	2333.2	2276.4	2251.2	2226.0	2251.2
30°	2441.1	2456.9	2472.7	2423.8	2353.5	2281.2	2207.2	2145.6	2121.4	2097.1	2121.4
32.5°	2384.3	2390.4	2396.5	2332.1	2244.2	2161.8	2084.9	2020.6	1994.4	1968.2	1994.4
35°	2291.0	2280.0	2269.1	2183.5	2073.1	1979.1	1901.4	1837.4	1814.3	1791.3	1814.3
37.5°	2180.6	2148.1	2115.6	2019.2	1901.5	1801.9	1720.6	1653.3	1627.8	1602.3	1627.8
40°	2099.8	2053.7	2007.6	1904.1	1781.5	1679.6	1598.3	1530.9	1505.5	1480.0	1505.5
42.5°	2010.2	1952.5	1894.7	1788.3	1665.8	1563.8	1482.5	1414.9	1388.5	1362.0	1388.5
45°	1862.3	1794.3	1726.3	1615.6	1490.6	1388.6	1309.8	1244.2	1218.7	1193.3	1218.7
47.5°	1695.7	1628.2	1560.7	1450.3	1325.5	1224.9	1148.5	1085.7	1063.8	1042.0	1063.8
50°	1575.5	1510.0	1444.5	1338.9	1220.0	1122.3	1045.8	981.8	955.1	928.4	955.1
52.5°	1453.2	1394.5	1335.7	1234.0	1118.0	1020.8	942.4	874.5	838.1	801.7	838.1
55°	1286.1	1230.3	1174.5	1078.6	969.4	871.1	783.7	713.0	692.4	671.7	692.4
57.5°	1114.1	1065.8	1017.5	931.3	832.5	743.4	664.1	600.3	583.3	566.3	583.3
60°	1004.9	962.4	919.9	837.4	741.5	660.2	593.4	539.1	522.1	505.2	522.1
62.5°	900.0	862.4	824.8	745.6	652.7	579.6	526.5	483.1	469.0	454.9	469.0
65°	742.7	714.8	686.9	621.7	544.0	483.3	439.6	403.8	391.7	379.5	391.7
67.5°	589.8	574.3	558.7	509.9	449.9	400.8	362.4	331.7	323.7	315.7	323.7
70°	491.5	486.6	481.8	441.4	389.3	347.4	315.8	290.7	284.6	278.5	284.6
72.5°	406.3	408.3	410.2	376.6	331.2	296.2	271.4	251.8	247.7	243.6	247.7
75°	289.4	299.1	308.9	286.7	253.9	229.1	212.1	198.7	196.3	193.9	196.3
77.5°	197.1	211.7	226.3	211.9	187.9	169.5	156.9	147.0	145.0	143.1	145.0
80°	144.7	159.3	173.8	163.8	145.6	131.7	122.0	114.7	114.7	114.7	114.7
82.5°	101.0	112.7	124.3	117.2	103.9	94.8	89.9	86.3	86.3	86.3	86.3
85°	49.2	55.2	61.3	59.2	54.3	48.2	41.0	35.2	34.0	32.8	34.0
87.5°	13.3	16.5	19.8	17.2	12.6	9.8	8.8	8.1	8.2	8.2	8.2
90°	1.1	2.7	4.5	6.1	7.2	7.6	7.6	8.0	8.3	8.3	8.3
92.5°	4.2	6.6	6.7	6.7	8.1	8.8	9.4	9.5	9.8	9.8	9.8
95°	11.7	12.9	19.3	18.9	12.9	10.2	8.7	8.7	8.7	8.7	8.7
97.5°	22.4	24.1	25.1	33.7	35.6	34.4	28.0	23.6	21.1	19.9	21.1
100°	31.8	32.6	34.8	35.2	44.7	53.8	49.2	43.5	41.6	40.5	41.6
102.5°	41.2	41.6	45.1	46.7	48.9	54.1	69.8	68.1	66.8	66.6	66.8
105°	55.3	55.7	62.1	65.1	66.6	66.6	66.3	73.8	85.9	88.6	85.9
107.5°	70.3	72.1	79.7	87.8	89.5	90.0	88.0	86.9	86.4	86.7	86.4
110°	80.6	83.3	92.4	102.6	105.3	106.0	105.3	104.1	103.4	103.4	103.4



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	90.6	94.5	104.8	116.5	121.0	123.3	121.6	120.8	120.0	120.6	120.0
115°	106.0	111.7	125.3	137.4	146.5	147.7	147.3	147.3	146.9	146.9	146.9
117.5°	120.3	129.3	144.6	158.7	169.2	172.3	173.8	173.3	172.9	173.6	172.9
120°	130.2	140.8	158.3	174.2	184.4	188.9	190.4	189.7	190.4	189.7	190.4
122.5°	140.8	153.9	171.0	187.5	199.5	204.7	206.5	206.7	206.8	206.4	206.8
125°	156.8	172.7	192.7	209.8	222.3	228.3	229.8	230.2	231.0	232.9	231.0
127.5°	172.8	190.8	212.9	229.3	242.1	249.4	251.8	252.6	254.2	255.0	254.2
130°	184.0	204.5	226.8	242.3	254.8	262.8	266.9	268.1	270.0	269.6	270.0
132.5°	195.8	217.2	239.8	256.0	267.5	276.1	279.7	282.9	283.6	284.1	283.6
135°	213.2	236.3	259.0	274.9	285.9	294.2	298.7	301.8	303.7	304.8	303.7
137.5°	231.4	255.8	277.6	291.8	302.8	310.0	315.2	318.4	320.3	321.2	320.3
140°	243.8	267.3	288.5	303.3	313.1	320.3	324.9	328.6	330.9	330.9	330.9
142.5°	255.6	278.8	299.4	314.2	322.8	329.4	334.3	337.1	339.7	339.7	339.7
145°	272.2	295.3	314.3	329.0	336.2	342.3	347.6	349.9	351.4	351.4	351.4
147.5°	289.6	310.0	327.3	341.4	347.5	354.6	358.8	360.6	362.5	361.7	362.5
150°	299.9	318.8	335.5	348.7	354.8	361.6	365.8	367.3	369.2	368.0	369.2
152.5°	309.9	327.9	343.0	355.4	360.5	367.3	372.1	373.6	374.9	374.1	374.9
155°	323.3	339.3	353.3	364.6	369.2	375.6	380.1	382.0	383.6	381.7	383.6
157.5°	335.4	349.1	361.3	371.7	376.6	382.1	386.4	388.7	390.2	389.4	390.2
160°	342.7	355.2	366.1	376.0	380.5	385.4	390.0	392.6	394.2	393.0	394.2
162.5°	348.7	360.0	370.4	379.3	383.2	387.6	393.0	395.4	396.9	395.4	396.9
165°	357.4	366.5	375.6	383.2	386.6	390.0	395.7	398.3	399.5	397.9	399.5
167.5°	364.0	371.0	378.3	384.8	387.3	390.7	396.3	398.5	400.0	398.1	400.0
170°	367.6	373.7	380.1	385.4	387.3	390.4	396.0	397.9	399.1	397.2	399.1
172.5°	370.7	375.2	380.4	385.1	386.1	388.5	393.9	395.8	396.7	395.1	396.7
175°	373.7	376.4	380.1	383.2	382.8	384.3	388.9	390.4	391.9	389.6	391.9
177.5°	375.1	376.4	377.6	379.4	378.2	378.2	381.5	382.4	382.7	381.5	382.7
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2863.5	2862.0	2861.0	2865.9	2876.6	2880.5	2863.9	2847.4	2863.9	2880.5	2876.6
5°	2864.4	2860.7	2859.5	2864.4	2875.3	2878.3	2857.7	2837.1	2857.7	2878.3	2875.3
7.5°	2863.2	2857.5	2853.3	2855.4	2863.6	2864.6	2843.7	2822.9	2843.7	2864.6	2863.6
10°	2858.6	2851.6	2845.6	2846.2	2853.5	2853.5	2831.6	2809.8	2831.6	2853.5	2853.5
12.5°	2849.9	2842.2	2835.1	2834.3	2839.6	2837.9	2815.1	2792.3	2815.1	2837.9	2839.6
15°	2827.7	2819.8	2811.3	2807.6	2808.9	2803.7	2779.4	2755.1	2779.4	2803.7	2808.9
17.5°	2768.4	2766.1	2763.9	2763.6	2765.3	2760.6	2736.3	2712.0	2736.3	2760.6	2765.3
20°	2708.7	2715.1	2723.6	2729.7	2733.3	2730.0	2705.7	2681.4	2705.7	2730.0	2733.3
22.5°	2623.8	2643.0	2666.1	2681.8	2690.3	2690.2	2663.9	2637.7	2663.9	2690.2	2690.3
25°	2463.9	2503.9	2551.3	2587.1	2611.3	2623.2	2597.7	2572.2	2597.7	2623.2	2611.3
27.5°	2276.4	2333.2	2400.4	2458.1	2506.1	2537.0	2516.4	2495.7	2516.4	2537.0	2506.1
30°	2145.6	2207.2	2281.2	2353.5	2423.8	2472.7	2456.9	2441.1	2456.9	2472.7	2423.8
32.5°	2020.6	2084.9	2161.8	2244.2	2332.1	2396.5	2390.4	2384.3	2390.4	2396.5	2332.1
35°	1837.4	1901.4	1979.1	2073.1	2183.5	2269.1	2280.0	2291.0	2280.0	2269.1	2183.5
37.5°	1653.3	1720.6	1801.9	1901.5	2019.2	2115.6	2148.1	2180.6	2148.1	2115.6	2019.2
40°	1530.9	1598.3	1679.6	1781.5	1904.1	2007.6	2053.7	2099.8	2053.7	2007.6	1904.1
42.5°	1414.9	1482.5	1563.8	1665.8	1788.3	1894.7	1952.5	2010.2	1952.5	1894.7	1788.3
45°	1244.2	1309.8	1388.6	1490.6	1615.6	1726.3	1794.3	1862.3	1794.3	1726.3	1615.6
47.5°	1085.7	1148.5	1224.9	1325.5	1450.3	1560.7	1628.2	1695.7	1628.2	1560.7	1450.3
50°	981.8	1045.8	1122.3	1220.0	1338.9	1444.5	1510.0	1575.5	1510.0	1444.5	1338.9
52.5°	874.5	942.4	1020.8	1118.0	1234.0	1335.7	1394.5	1453.2	1394.5	1335.7	1234.0
55°	713.0	783.7	871.1	969.4	1078.6	1174.5	1230.3	1286.1	1230.3	1174.5	1078.6
57.5°	600.3	664.1	743.4	832.5	931.3	1017.5	1065.8	1114.1	1065.8	1017.5	931.3
60°	539.1	593.4	660.2	741.5	837.4	919.9	962.4	1004.9	962.4	919.9	837.4
62.5°	483.1	526.5	579.6	652.7	745.6	824.8	862.4	900.0	862.4	824.8	745.6
65°	403.8	439.6	483.3	544.0	621.7	686.9	714.8	742.7	714.8	686.9	621.7
67.5°	331.7	362.4	400.8	449.9	509.9	558.7	574.3	589.8	574.3	558.7	509.9
70°	290.7	315.8	347.4	389.3	441.4	481.8	486.6	491.5	486.6	481.8	441.4
72.5°	251.8	271.4	296.2	331.2	376.6	410.2	408.3	406.3	408.3	410.2	376.6
75°	198.7	212.1	229.1	253.9	286.7	308.9	299.1	289.4	299.1	308.9	286.7
77.5°	147.0	156.9	169.5	187.9	211.9	226.3	211.7	197.1	211.7	226.3	211.9
80°	114.7	122.0	131.7	145.6	163.8	173.8	159.3	144.7	159.3	173.8	163.8
82.5°	86.3	89.9	94.8	103.9	117.2	124.3	112.7	101.0	112.7	124.3	117.2
85°	35.2	41.0	48.2	54.3	59.2	61.3	55.2	49.2	55.2	61.3	59.2
87.5°	8.1	8.8	9.8	12.6	17.2	19.8	16.5	13.3	16.5	19.8	17.4
90°	8.0	7.6	7.6	7.2	6.1	4.5	2.7	1.1	2.7	4.2	6.8
92.5°	9.5	9.4	8.8	8.1	6.7	6.7	6.6	4.2	7.2	10.2	14.7
95°	8.7	8.7	10.2	12.9	18.9	19.3	12.9	11.7	16.7	23.5	29.5
97.5°	23.6	28.0	34.4	35.6	33.7	25.1	24.1	22.4	30.5	37.3	47.0
100°	43.5	49.2	53.8	44.7	35.2	34.8	32.6	31.8	40.5	46.9	56.4
102.5°	68.1	69.8	54.1	48.9	46.7	45.1	41.6	41.2	49.9	58.8	66.7
105°	73.8	66.3	66.6	66.6	65.1	62.1	55.7	55.3	65.1	75.3	85.2
107.5°	86.9	88.0	90.0	89.5	87.8	79.7	72.1	70.3	79.2	91.5	102.3
110°	104.1	105.3	106.0	105.3	102.6	92.4	83.3	80.6	88.6	101.5	113.2



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	120.8	121.6	123.3	121.0	116.5	104.8	94.5	90.6	98.6	111.8	123.8
115°	147.3	147.3	147.7	146.5	137.4	125.3	111.7	106.0	112.8	124.9	138.2
117.5°	173.3	173.8	172.3	169.2	158.7	144.6	129.3	120.3	125.6	138.4	152.1
120°	189.7	190.4	188.9	184.4	174.2	158.3	140.8	130.2	134.4	146.9	160.5
122.5°	206.7	206.5	204.7	199.5	187.5	171.0	153.9	140.8	142.6	154.2	167.5
125°	230.2	229.8	228.3	222.3	209.8	192.7	172.7	156.8	154.5	164.3	178.0
127.5°	252.6	251.8	249.4	242.1	229.3	212.9	190.8	172.8	167.7	173.9	186.4
130°	268.1	266.9	262.8	254.8	242.3	226.8	204.5	184.0	176.8	180.6	191.6
132.5°	282.9	279.7	276.1	267.5	256.0	239.8	217.2	195.8	185.9	187.6	196.1
135°	301.8	298.7	294.2	285.9	274.9	259.0	236.3	213.2	199.5	198.0	202.9
137.5°	318.4	315.2	310.0	302.8	291.8	277.6	255.8	231.4	214.2	209.2	211.0
140°	328.6	324.9	320.3	313.1	303.3	288.5	267.3	243.8	224.5	217.3	216.2
142.5°	337.1	334.3	329.4	322.8	314.2	299.4	278.8	255.6	235.1	225.8	223.2
145°	349.9	347.6	342.3	336.2	329.0	314.3	295.3	272.2	251.8	239.7	234.0
147.5°	360.6	358.8	354.6	347.5	341.4	327.3	310.0	289.6	268.6	253.6	246.3
150°	367.3	365.8	361.6	354.8	348.7	335.5	318.8	299.9	279.8	263.9	254.4
152.5°	373.6	372.1	367.3	360.5	355.4	343.0	327.9	309.9	289.5	273.6	263.8
155°	382.0	380.1	375.6	369.2	364.6	353.3	339.3	323.3	305.9	289.3	278.3
157.5°	388.7	386.4	382.1	376.6	371.7	361.3	349.1	335.4	320.2	304.3	293.1
160°	392.6	390.0	385.4	380.5	376.0	366.1	355.2	342.7	328.6	314.3	302.1
162.5°	395.4	393.0	387.6	383.2	379.3	370.4	360.0	348.7	336.2	323.7	312.4
165°	398.3	395.7	390.0	386.6	383.2	375.6	366.5	357.4	346.8	336.6	327.5
167.5°	398.5	396.3	390.7	387.3	384.8	378.3	371.0	364.0	355.8	347.7	340.2
170°	397.9	396.0	390.4	387.3	385.4	380.1	373.7	367.6	361.2	354.4	348.3
172.5°	395.8	393.9	388.5	386.1	385.1	380.4	375.2	370.7	365.1	360.2	355.3
175°	390.4	388.9	384.3	382.8	383.2	380.1	376.4	373.7	370.3	367.3	364.6
177.5°	382.4	381.5	378.2	378.2	379.4	377.6	376.4	375.1	373.6	372.7	371.8
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2865.9	2861.0	2862.0	2863.5	2866.4	2869.3	2866.4	2863.5	2862.0	2861.0	2865.9
5°	2864.4	2859.5	2860.7	2864.4	2875.3	2886.2	2875.3	2864.4	2860.7	2859.5	2864.4
7.5°	2855.4	2853.3	2857.5	2863.2	2873.9	2884.6	2873.9	2863.2	2857.5	2853.3	2855.4
10°	2846.2	2845.6	2851.6	2858.6	2868.3	2878.0	2868.3	2858.6	2851.6	2845.6	2846.2
12.5°	2834.3	2835.1	2842.2	2849.9	2859.6	2869.3	2859.6	2849.9	2842.2	2835.1	2834.3
15°	2807.6	2811.3	2819.8	2827.7	2833.7	2839.8	2833.7	2827.7	2819.8	2811.3	2807.6
17.5°	2763.6	2763.9	2766.1	2768.4	2771.4	2774.3	2771.4	2768.4	2766.1	2763.9	2763.6
20°	2729.7	2723.6	2715.1	2708.7	2708.7	2708.7	2708.7	2708.7	2715.1	2723.6	2729.7
22.5°	2681.8	2666.1	2643.0	2623.8	2616.0	2608.2	2616.0	2623.8	2643.0	2666.1	2681.8
25°	2587.1	2551.3	2503.9	2463.9	2445.7	2427.5	2445.7	2463.9	2503.9	2551.3	2587.1
27.5°	2458.1	2400.4	2333.2	2276.4	2251.2	2226.0	2251.2	2276.4	2333.2	2400.4	2458.1
30°	2353.5	2281.2	2207.2	2145.6	2121.4	2097.1	2121.4	2145.6	2207.2	2281.2	2353.5
32.5°	2244.2	2161.8	2084.9	2020.6	1994.4	1968.2	1994.4	2020.6	2084.9	2161.8	2244.2
35°	2073.1	1979.1	1901.4	1837.4	1814.3	1791.3	1814.3	1837.4	1901.4	1979.1	2073.1
37.5°	1901.5	1801.9	1720.6	1653.3	1627.8	1602.3	1627.8	1653.3	1720.6	1801.9	1901.5
40°	1781.5	1679.6	1598.3	1530.9	1505.5	1480.0	1505.5	1530.9	1598.3	1679.6	1781.5
42.5°	1665.8	1563.8	1482.5	1414.9	1388.5	1362.0	1388.5	1414.9	1482.5	1563.8	1665.8
45°	1490.6	1388.6	1309.8	1244.2	1218.7	1193.3	1218.7	1244.2	1309.8	1388.6	1490.6
47.5°	1325.5	1224.9	1148.5	1085.7	1063.8	1042.0	1063.8	1085.7	1148.5	1224.9	1325.5
50°	1220.0	1122.3	1045.8	981.8	955.1	928.4	955.1	981.8	1045.8	1122.3	1220.0
52.5°	1118.0	1020.8	942.4	874.5	838.1	801.7	838.1	874.5	942.4	1020.8	1118.0
55°	969.4	871.1	783.7	713.0	692.4	671.7	692.4	713.0	783.7	871.1	969.4
57.5°	832.5	743.4	664.1	600.3	583.3	566.3	583.3	600.3	664.1	743.4	832.5
60°	741.5	660.2	593.4	539.1	522.1	505.2	522.1	539.1	593.4	660.2	741.5
62.5°	652.7	579.6	526.5	483.1	469.0	454.9	469.0	483.1	526.5	579.6	652.7
65°	544.0	483.3	439.6	403.8	391.7	379.5	391.7	403.8	439.6	483.3	544.0
67.5°	449.9	400.8	362.4	331.7	323.7	315.7	323.7	331.7	362.4	400.8	449.9
70°	389.3	347.4	315.8	290.7	284.6	278.5	284.6	290.7	315.8	347.4	389.3
72.5°	331.2	296.2	271.4	251.8	247.7	243.6	247.7	251.8	271.4	296.2	331.2
75°	253.9	229.1	212.1	198.7	196.3	193.9	196.3	198.7	212.1	229.1	253.9
77.5°	187.9	169.5	156.9	147.0	145.0	143.1	145.0	147.0	156.9	169.5	187.9
80°	145.6	131.7	122.0	114.7	114.7	114.7	114.7	114.7	122.0	131.7	145.6
82.5°	103.9	94.8	89.9	86.3	86.3	86.3	86.3	86.3	89.9	94.8	103.9
85°	54.3	48.2	41.0	35.2	34.0	32.8	34.0	35.2	41.0	48.2	54.3
87.5°	12.9	10.5	10.1	9.7	10.0	9.8	10.0	9.7	10.1	10.5	12.9
90°	8.7	11.4	14.0	15.5	17.0	16.3	17.0	15.5	14.0	11.4	8.7
92.5°	17.5	22.0	25.2	27.9	29.2	29.0	29.2	27.9	25.2	22.0	17.5
95°	35.2	40.5	45.8	49.6	51.9	51.1	51.9	49.6	45.8	40.5	35.2
97.5°	54.3	61.4	67.3	70.9	73.2	74.7	73.2	70.9	67.3	61.4	54.3
100°	67.0	73.8	80.6	84.8	88.6	90.1	88.6	84.8	80.6	73.8	67.0
102.5°	77.3	86.3	93.7	98.1	101.3	102.8	101.3	98.1	93.7	86.3	77.3
105°	94.3	103.7	111.7	117.4	120.8	121.9	120.8	117.4	111.7	103.7	94.3
107.5°	111.2	121.0	128.4	134.6	138.8	141.2	138.8	134.6	128.4	121.0	111.2
110°	124.6	132.5	140.5	146.2	150.3	151.8	150.3	146.2	140.5	132.5	124.6



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	135.8	144.6	152.6	158.3	163.0	165.2	163.0	158.3	152.6	144.6	135.8
115°	151.5	163.2	170.4	175.7	179.1	181.0	179.1	175.7	170.4	163.2	151.5
117.5°	164.5	176.7	184.6	188.7	190.3	191.7	190.3	188.7	184.6	176.7	164.5
120°	172.7	184.0	193.1	198.4	200.3	201.1	200.3	198.4	193.1	184.0	172.7
122.5°	180.2	191.0	199.8	206.3	209.4	210.1	209.4	206.3	199.8	191.0	180.2
125°	190.8	201.1	210.1	216.6	220.0	221.9	220.0	216.6	210.1	201.1	190.8
127.5°	200.1	211.1	219.5	225.3	228.6	230.1	228.6	225.3	219.5	211.1	200.1
130°	205.2	216.6	224.9	231.3	234.4	235.9	234.4	231.3	224.9	216.6	205.2
132.5°	209.2	221.1	229.8	235.6	238.9	240.4	238.9	235.6	229.8	221.1	209.2
135°	213.9	226.4	235.5	241.2	244.2	245.7	244.2	241.2	235.5	226.4	213.9
137.5°	218.1	229.4	238.9	244.9	247.6	248.6	247.6	244.9	238.9	229.4	218.1
140°	221.1	231.0	240.4	246.1	249.1	249.5	249.1	246.1	240.4	231.0	221.1
142.5°	225.1	232.8	241.0	246.7	249.7	250.4	249.7	246.7	241.0	232.8	225.1
145°	232.1	236.6	242.3	247.6	250.3	251.0	250.3	247.6	242.3	236.6	232.1
147.5°	241.0	242.4	245.4	248.8	251.4	251.9	251.4	248.8	245.4	242.4	241.0
150°	247.6	247.2	248.4	250.7	252.9	252.5	252.9	250.7	248.4	247.2	247.6
152.5°	255.2	253.0	252.9	254.0	255.0	255.0	255.0	254.0	252.9	253.0	255.2
155°	268.1	263.9	261.6	260.9	260.9	260.5	260.9	260.9	261.6	263.9	268.1
157.5°	282.2	276.4	273.0	271.2	270.6	269.8	270.6	271.2	273.0	276.4	282.2
160°	291.9	285.5	282.1	279.0	277.9	276.8	277.9	279.0	282.1	285.5	291.9
162.5°	301.0	294.9	291.2	288.4	287.3	285.6	287.3	288.4	291.2	294.9	301.0
165°	315.8	309.3	305.2	302.9	301.4	299.9	301.4	302.9	305.2	309.3	315.8
167.5°	330.5	323.5	320.8	318.2	316.8	314.0	316.8	318.2	320.8	323.5	330.5
170°	339.6	333.2	331.7	329.4	326.8	323.7	326.8	329.4	331.7	333.2	339.6
172.5°	347.5	343.2	341.7	339.4	338.6	336.1	338.6	339.4	341.7	343.2	347.5
175°	358.9	355.5	355.5	355.2	354.0	351.7	354.0	355.2	355.5	355.5	358.9
177.5°	368.5	366.7	367.9	367.9	367.6	365.5	367.6	367.9	367.9	366.7	368.5
180°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2867.1	2867.1	2867.1	2867.1
2.5°	2876.6	2880.5	2863.9	2847.4
5°	2875.3	2878.3	2857.7	2837.1
7.5°	2863.6	2864.6	2843.7	2822.9
10°	2853.5	2853.5	2831.6	2809.8
12.5°	2839.6	2837.9	2815.1	2792.3
15°	2808.9	2803.7	2779.4	2755.1
17.5°	2765.3	2760.6	2736.3	2712.0
20°	2733.3	2730.0	2705.7	2681.4
22.5°	2690.3	2690.2	2663.9	2637.7
25°	2611.3	2623.2	2597.7	2572.2
27.5°	2506.1	2537.0	2516.4	2495.7
30°	2423.8	2472.7	2456.9	2441.1
32.5°	2332.1	2396.5	2390.4	2384.3
35°	2183.5	2269.1	2280.0	2291.0
37.5°	2019.2	2115.6	2148.1	2180.6
40°	1904.1	2007.6	2053.7	2099.8
42.5°	1788.3	1894.7	1952.5	2010.2
45°	1615.6	1726.3	1794.3	1862.3
47.5°	1450.3	1560.7	1628.2	1695.7
50°	1338.9	1444.5	1510.0	1575.5
52.5°	1234.0	1335.7	1394.5	1453.2
55°	1078.6	1174.5	1230.3	1286.1
57.5°	931.3	1017.5	1065.8	1114.1
60°	837.4	919.9	962.4	1004.9
62.5°	745.6	824.8	862.4	900.0
65°	621.7	686.9	714.8	742.7
67.5°	509.9	558.7	574.3	589.8
70°	441.4	481.8	486.6	491.5
72.5°	376.6	410.2	408.3	406.3
75°	286.7	308.9	299.1	289.4
77.5°	211.9	226.3	211.7	197.1
80°	163.8	173.8	159.3	144.7
82.5°	117.2	124.3	112.7	101.0
85°	59.2	61.3	55.2	49.2
87.5°	17.4	19.8	16.5	13.3
90°	6.8	4.2	2.7	1.1
92.5°	14.7	10.2	7.2	4.2
95°	29.5	23.5	16.7	11.7
97.5°	47.0	37.3	30.5	22.4
100°	56.4	46.9	40.5	31.8
102.5°	66.7	58.8	49.9	41.2
105°	85.2	75.3	65.1	55.3
107.5°	102.3	91.5	79.2	70.3
110°	113.2	101.5	88.6	80.6



TEST NUMBER: P1428365

CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	123.8	111.8	98.6	90.6
115°	138.2	124.9	112.8	106.0
117.5°	152.1	138.4	125.6	120.3
120°	160.5	146.9	134.4	130.2
122.5°	167.5	154.2	142.6	140.8
125°	178.0	164.3	154.5	156.8
127.5°	186.4	173.9	167.7	172.8
130°	191.6	180.6	176.8	184.0
132.5°	196.1	187.6	185.9	195.8
135°	202.9	198.0	199.5	213.2
137.5°	211.0	209.2	214.2	231.4
140°	216.2	217.3	224.5	243.8
142.5°	223.2	225.8	235.1	255.6
145°	234.0	239.7	251.8	272.2
147.5°	246.3	253.6	268.6	289.6
150°	254.4	263.9	279.8	299.9
152.5°	263.8	273.6	289.5	309.9
155°	278.3	289.3	305.9	323.3
157.5°	293.1	304.3	320.2	335.4
160°	302.1	314.3	328.6	342.7
162.5°	312.4	323.7	336.2	348.7
165°	327.5	336.6	346.8	357.4
167.5°	340.2	347.7	355.8	364.0
170°	348.3	354.4	361.2	367.6
172.5°	355.3	360.2	365.1	370.7
175°	364.6	367.3	370.3	373.7
177.5°	371.8	372.7	373.6	375.1
180°	374.8	374.8	374.8	374.8



TEST NUMBER: P1428365
 CATALOG NUMBER: SQ2W-PW1-K-025U-125D-L830-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	23.09	24.31	23.68	24.90	25.56	19.34	20.56	19.93	21.15	21.81
	3H	24.42	25.51	25.02	26.11	26.81	20.64	21.73	21.24	22.33	23.03
	4H	24.85	25.87	25.47	26.48	27.20	21.16	22.19	21.78	22.80	23.51
	6H	25.04	25.99	25.68	26.61	27.34	21.49	22.43	22.12	23.06	23.78
	8H	25.10	26.00	25.74	26.64	27.37	21.61	22.51	22.26	23.15	23.89
	12H	25.11	25.97	25.76	26.61	27.36	21.65	22.51	22.30	23.15	23.91
4H	2H	23.27	24.29	23.89	24.91	25.62	20.19	21.22	20.82	21.83	22.55
	3H	24.84	25.69	25.47	26.34	27.07	21.67	22.52	22.31	23.18	23.91
	4H	25.40	26.17	26.05	26.82	27.59	22.26	23.03	22.92	23.69	24.45
	6H	25.73	26.39	26.40	27.08	27.85	22.67	23.33	23.34	24.02	24.79
	8H	25.83	26.45	26.51	27.13	27.91	22.82	23.44	23.50	24.13	24.91
	12H	25.86	26.42	26.56	27.13	27.92	22.88	23.44	23.58	24.15	24.94
8H	4H	25.46	26.08	26.14	26.76	27.55	22.63	23.25	23.31	23.93	24.72
	6H	25.90	26.41	26.61	27.13	27.92	23.14	23.65	23.85	24.38	25.17
	8H	26.07	26.52	26.79	27.25	28.06	23.36	23.81	24.08	24.55	25.35
	12H	26.16	26.56	26.88	27.28	28.15	23.46	23.86	24.18	24.58	25.45
12H	4H	25.44	25.99	26.14	26.70	27.49	22.67	23.22	23.37	23.93	24.72
	6H	25.89	26.35	26.62	27.08	27.88	23.21	23.67	23.94	24.40	25.21
	8H	26.10	26.50	26.82	27.22	28.09	23.47	23.88	24.20	24.59	25.46