

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: P1435883

Luminaire Tested: SQ2W-FB-0U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435883
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-0U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

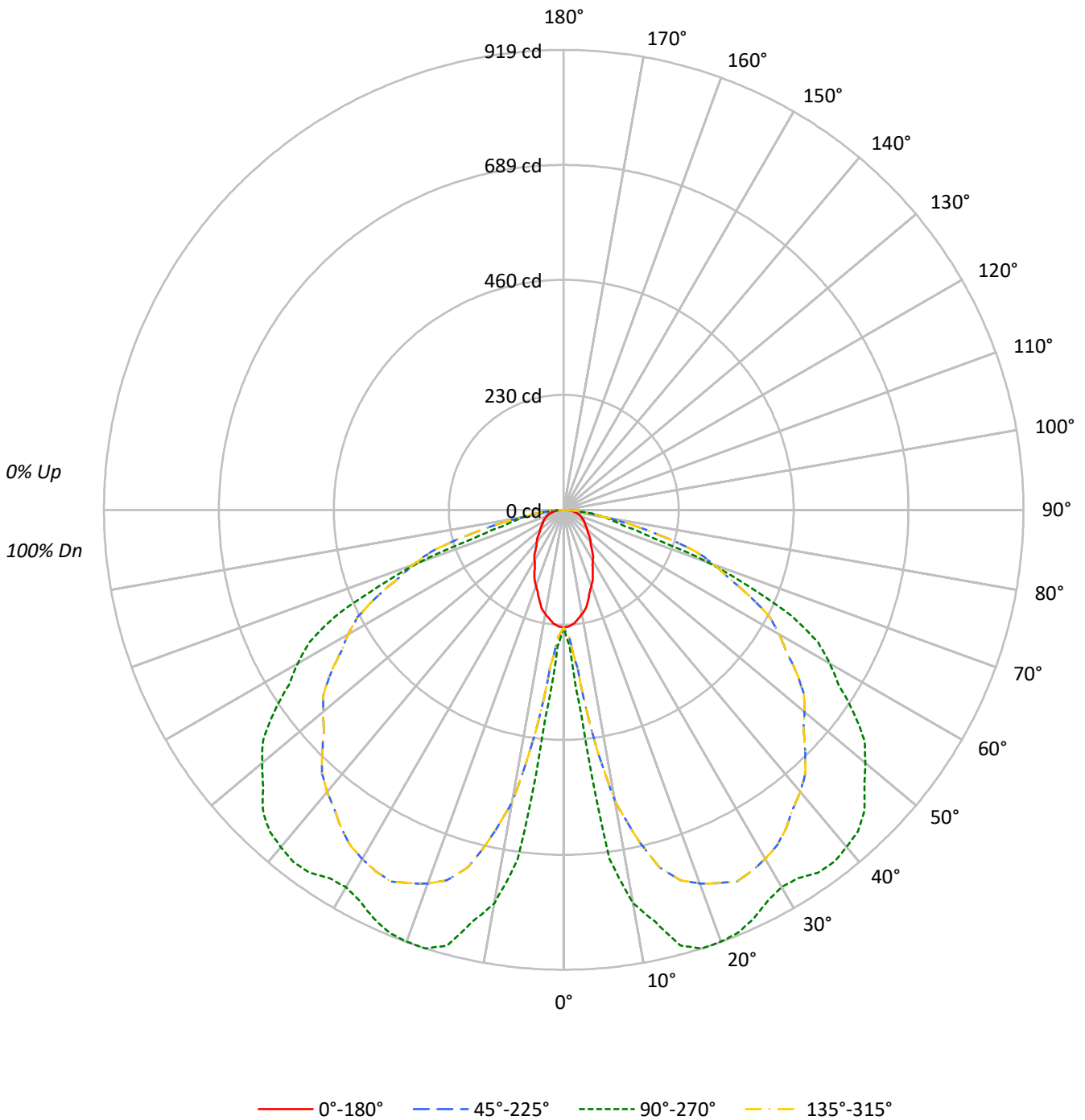
Lumens per Lamp: N/A
Luminaire Lumens: 2322.7 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3797	3797	3797	3797
5°	3702	6724	3702	6724
10°	3466	13086	3466	13086
15°	3137	15062	3137	15062
20°	2778	15775	2778	15775
25°	2457	16033	2457	16033
30°	2172	16231	2172	16231
35°	1939	17449	1939	17449
40°	1764	18539	1764	18539
45°	1626	19415	1626	19415
50°	1535	19765	1535	19765
55°	1495	19924	1495	19924
60°	1534	19824	1534	19824
65°	1597	19266	1597	19266
70°	1657	14573	1657	14573
75°	1834	8041	1834	8041
80°	1897	7466	1897	7466
85°	1890	3149	1890	3149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 20104 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	1.7
10°-20°	179.8	7.7
20°-30°	316.4	13.6
30°-40°	409.5	17.6
40°-50°	451.6	19.4
50°-60°	421.5	18.1
60°-70°	325.7	14.0
70°-80°	150.1	6.5
80°-90°	28.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	535.5	23.1
0°-40°	945.1	40.7
0°-60°	1818.2	78.3
0°-90°	2322.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	235	235	235	235	235	
5°	228	415	228	415	228	21
15°	188	901	188	901	188	52
25°	138	900	138	900	138	63
35°	98	885	98	885	98	62
45°	71	850	71	850	71	55
55°	53	708	53	708	53	48
65°	42	504	42	504	42	41
75°	29	129	29	129	29	30
85°	10	17	10	17	10	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2
2.5°	233.4	237.8	242.2	246.9	251.8	257.0	262.6	267.4	269.8	272.3	269.8
5°	228.4	243.5	258.5	280.4	304.5	331.9	362.6	388.8	401.9	414.9	401.9
7.5°	219.6	250.2	280.9	345.8	422.2	501.5	583.7	651.9	678.0	704.2	678.0
10°	211.4	254.1	296.9	407.0	539.7	641.7	713.1	770.1	784.2	798.2	784.2
12.5°	202.4	260.4	318.4	454.4	616.4	722.4	772.5	813.6	828.1	842.6	828.1
15°	187.7	270.6	353.5	507.3	684.7	793.7	834.4	869.0	885.0	901.1	885.0
17.5°	172.5	282.9	393.2	550.1	722.5	828.8	869.1	901.5	910.2	919.0	910.2
20°	161.7	291.3	421.0	578.1	744.5	845.0	879.6	907.0	912.6	918.1	912.6
22.5°	151.7	296.7	441.6	598.9	760.5	854.3	880.6	901.7	907.6	913.6	907.6
25°	137.9	301.3	464.6	621.5	776.3	861.9	878.5	892.0	896.0	900.0	896.0
27.5°	124.6	297.2	469.7	624.6	773.7	853.6	864.5	873.6	877.5	881.5	877.5
30°	116.5	291.8	467.2	620.7	767.0	844.1	852.1	859.5	865.1	870.6	865.1
32.5°	109.2	285.4	461.6	613.2	756.6	832.1	839.8	848.5	860.5	872.4	860.5
35°	98.4	271.7	445.1	595.1	737.3	814.4	826.5	841.1	863.2	885.3	863.2
37.5°	89.1	254.2	419.3	567.8	710.7	794.8	820.0	844.3	865.6	886.9	865.6
40°	83.7	242.0	400.3	547.6	691.3	780.0	813.7	843.5	861.6	879.6	861.6
42.5°	78.2	228.1	377.9	524.1	669.0	761.1	800.4	834.4	852.5	870.6	852.5
45°	71.2	205.9	340.6	485.4	633.7	730.9	777.1	816.1	833.2	850.3	833.2
47.5°	64.7	181.7	298.6	444.1	599.1	701.1	750.1	790.0	802.5	815.0	802.5
50°	61.1	165.6	270.1	416.1	575.9	679.9	728.1	766.8	776.9	786.9	776.9
52.5°	57.4	149.9	242.4	388.6	552.9	657.7	703.1	739.5	748.7	758.0	748.7
55°	53.1	128.5	203.9	348.6	516.5	620.2	659.9	691.7	699.7	707.8	699.7
57.5°	49.3	110.1	170.9	311.1	477.7	578.0	611.8	638.9	645.4	651.9	645.4
60°	47.5	100.3	153.0	287.6	449.4	545.6	576.3	600.9	607.4	613.9	607.4
62.5°	44.8	90.7	136.6	264.0	418.6	510.0	538.3	561.0	567.1	573.2	567.1
65°	41.8	79.0	116.2	231.0	371.7	453.9	477.5	496.2	500.3	504.3	500.3
67.5°	37.8	69.3	100.9	200.8	323.5	392.2	406.9	416.0	408.5	400.9	408.5
70°	35.1	64.2	93.3	182.4	291.5	348.5	353.5	351.9	330.3	308.7	330.3
72.5°	33.2	59.2	85.1	162.2	256.4	297.9	286.9	268.4	227.5	186.6	227.5
75°	29.4	50.5	71.6	129.6	200.0	211.1	162.8	126.9	127.9	128.9	127.9
77.5°	24.0	39.7	55.5	91.2	133.5	141.9	116.4	97.5	98.4	99.3	98.4
80°	20.4	32.9	45.5	59.5	74.1	80.9	79.9	79.3	79.8	80.3	79.8
82.5°	16.7	26.1	35.4	43.9	52.0	56.6	57.6	58.2	57.5	56.8	57.5
85°	10.2	15.7	21.2	24.5	27.0	26.3	22.2	19.0	18.0	17.0	18.0
87.5°	3.6	5.6	7.6	6.9	5.3	4.5	4.5	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2
2.5°	267.4	262.6	257.0	251.8	246.9	242.2	237.8	233.4	237.8	242.2	246.9
5°	388.8	362.6	331.9	304.5	280.4	258.5	243.5	228.4	243.5	258.5	280.4
7.5°	651.9	583.7	501.5	422.2	345.8	280.9	250.2	219.6	250.2	280.9	345.8
10°	770.1	713.1	641.7	539.7	407.0	296.9	254.1	211.4	254.1	296.9	407.0
12.5°	813.6	772.5	722.4	616.4	454.4	318.4	260.4	202.4	260.4	318.4	454.4
15°	869.0	834.4	793.7	684.7	507.3	353.5	270.6	187.7	270.6	353.5	507.3
17.5°	901.5	869.1	828.8	722.5	550.1	393.2	282.9	172.5	282.9	393.2	550.1
20°	907.0	879.6	845.0	744.5	578.1	421.0	291.3	161.7	291.3	421.0	578.1
22.5°	901.7	880.6	854.3	760.5	598.9	441.6	296.7	151.7	296.7	441.6	598.9
25°	892.0	878.5	861.9	776.3	621.5	464.6	301.3	137.9	301.3	464.6	621.5
27.5°	873.6	864.5	853.6	773.7	624.6	469.7	297.2	124.6	297.2	469.7	624.6
30°	859.5	852.1	844.1	767.0	620.7	467.2	291.8	116.5	291.8	467.2	620.7
32.5°	848.5	839.8	832.1	756.6	613.2	461.6	285.4	109.2	285.4	461.6	613.2
35°	841.1	826.5	814.4	737.3	595.1	445.1	271.7	98.4	271.7	445.1	595.1
37.5°	844.3	820.0	794.8	710.7	567.8	419.3	254.2	89.1	254.2	419.3	567.8
40°	843.5	813.7	780.0	691.3	547.6	400.3	242.0	83.7	242.0	400.3	547.6
42.5°	834.4	800.4	761.1	669.0	524.1	377.9	228.1	78.2	228.1	377.9	524.1
45°	816.1	777.1	730.9	633.7	485.4	340.6	205.9	71.2	205.9	340.6	485.4
47.5°	790.0	750.1	701.1	599.1	444.1	298.6	181.7	64.7	181.7	298.6	444.1
50°	766.8	728.1	679.9	575.9	416.1	270.1	165.6	61.1	165.6	270.1	416.1
52.5°	739.5	703.1	657.7	552.9	388.6	242.4	149.9	57.4	149.9	242.4	388.6
55°	691.7	659.9	620.2	516.5	348.6	203.9	128.5	53.1	128.5	203.9	348.6
57.5°	638.9	611.8	578.0	477.7	311.1	170.9	110.1	49.3	110.1	170.9	311.1
60°	600.9	576.3	545.6	449.4	287.6	153.0	100.3	47.5	100.3	153.0	287.6
62.5°	561.0	538.3	510.0	418.6	264.0	136.6	90.7	44.8	90.7	136.6	264.0
65°	496.2	477.5	453.9	371.7	231.0	116.2	79.0	41.8	79.0	116.2	231.0
67.5°	416.0	406.9	392.2	323.5	200.8	100.9	69.3	37.8	69.3	100.9	200.8
70°	351.9	353.5	348.5	291.5	182.4	93.3	64.2	35.1	64.2	93.3	182.4
72.5°	268.4	286.9	297.9	256.4	162.2	85.1	59.2	33.2	59.2	85.1	162.2
75°	126.9	162.8	211.1	200.0	129.6	71.6	50.5	29.4	50.5	71.6	129.6
77.5°	97.5	116.4	141.9	133.5	91.2	55.5	39.7	24.0	39.7	55.5	91.2
80°	79.3	79.9	80.9	74.1	59.5	45.5	32.9	20.4	32.9	45.5	59.5
82.5°	58.2	57.6	56.6	52.0	43.9	35.4	26.1	16.7	26.1	35.4	43.9
85°	19.0	22.2	26.3	27.0	24.5	21.2	15.7	10.2	15.7	21.2	24.5
87.5°	4.5	4.5	4.5	5.3	6.9	7.6	5.6	3.6	5.6	7.6	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2	235.2
2.5°	251.8	257.0	262.6	267.4	269.8	272.3	269.8	267.4	262.6	257.0	251.8
5°	304.5	331.9	362.6	388.8	401.9	414.9	401.9	388.8	362.6	331.9	304.5
7.5°	422.2	501.5	583.7	651.9	678.0	704.2	678.0	651.9	583.7	501.5	422.2
10°	539.7	641.7	713.1	770.1	784.2	798.2	784.2	770.1	713.1	641.7	539.7
12.5°	616.4	722.4	772.5	813.6	828.1	842.6	828.1	813.6	772.5	722.4	616.4
15°	684.7	793.7	834.4	869.0	885.0	901.1	885.0	869.0	834.4	793.7	684.7
17.5°	722.5	828.8	869.1	901.5	910.2	919.0	910.2	901.5	869.1	828.8	722.5
20°	744.5	845.0	879.6	907.0	912.6	918.1	912.6	907.0	879.6	845.0	744.5
22.5°	760.5	854.3	880.6	901.7	907.6	913.6	907.6	901.7	880.6	854.3	760.5
25°	776.3	861.9	878.5	892.0	896.0	900.0	896.0	892.0	878.5	861.9	776.3
27.5°	773.7	853.6	864.5	873.6	877.5	881.5	877.5	873.6	864.5	853.6	773.7
30°	767.0	844.1	852.1	859.5	865.1	870.6	865.1	859.5	852.1	844.1	767.0
32.5°	756.6	832.1	839.8	848.5	860.5	872.4	860.5	848.5	839.8	832.1	756.6
35°	737.3	814.4	826.5	841.1	863.2	885.3	863.2	841.1	826.5	814.4	737.3
37.5°	710.7	794.8	820.0	844.3	865.6	886.9	865.6	844.3	820.0	794.8	710.7
40°	691.3	780.0	813.7	843.5	861.6	879.6	861.6	843.5	813.7	780.0	691.3
42.5°	669.0	761.1	800.4	834.4	852.5	870.6	852.5	834.4	800.4	761.1	669.0
45°	633.7	730.9	777.1	816.1	833.2	850.3	833.2	816.1	777.1	730.9	633.7
47.5°	599.1	701.1	750.1	790.0	802.5	815.0	802.5	790.0	750.1	701.1	599.1
50°	575.9	679.9	728.1	766.8	776.9	786.9	776.9	766.8	728.1	679.9	575.9
52.5°	552.9	657.7	703.1	739.5	748.7	758.0	748.7	739.5	703.1	657.7	552.9
55°	516.5	620.2	659.9	691.7	699.7	707.8	699.7	691.7	659.9	620.2	516.5
57.5°	477.7	578.0	611.8	638.9	645.4	651.9	645.4	638.9	611.8	578.0	477.7
60°	449.4	545.6	576.3	600.9	607.4	613.9	607.4	600.9	576.3	545.6	449.4
62.5°	418.6	510.0	538.3	561.0	567.1	573.2	567.1	561.0	538.3	510.0	418.6
65°	371.7	453.9	477.5	496.2	500.3	504.3	500.3	496.2	477.5	453.9	371.7
67.5°	323.5	392.2	406.9	416.0	408.5	400.9	408.5	416.0	406.9	392.2	323.5
70°	291.5	348.5	353.5	351.9	330.3	308.7	330.3	351.9	353.5	348.5	291.5
72.5°	256.4	297.9	286.9	268.4	227.5	186.6	227.5	268.4	286.9	297.9	256.4
75°	200.0	211.1	162.8	126.9	127.9	128.9	127.9	126.9	162.8	211.1	200.0
77.5°	133.5	141.9	116.4	97.5	98.4	99.3	98.4	97.5	116.4	141.9	133.5
80°	74.1	80.9	79.9	79.3	79.8	80.3	79.8	79.3	79.9	80.9	74.1
82.5°	52.0	56.6	57.6	58.2	57.5	56.8	57.5	58.2	57.6	56.6	52.0
85°	27.0	26.3	22.2	19.0	18.0	17.0	18.0	19.0	22.2	26.3	27.0
87.5°	5.3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	235.2	235.2	235.2	235.2
2.5°	246.9	242.2	237.8	233.4
5°	280.4	258.5	243.5	228.4
7.5°	345.8	280.9	250.2	219.6
10°	407.0	296.9	254.1	211.4
12.5°	454.4	318.4	260.4	202.4
15°	507.3	353.5	270.6	187.7
17.5°	550.1	393.2	282.9	172.5
20°	578.1	421.0	291.3	161.7
22.5°	598.9	441.6	296.7	151.7
25°	621.5	464.6	301.3	137.9
27.5°	624.6	469.7	297.2	124.6
30°	620.7	467.2	291.8	116.5
32.5°	613.2	461.6	285.4	109.2
35°	595.1	445.1	271.7	98.4
37.5°	567.8	419.3	254.2	89.1
40°	547.6	400.3	242.0	83.7
42.5°	524.1	377.9	228.1	78.2
45°	485.4	340.6	205.9	71.2
47.5°	444.1	298.6	181.7	64.7
50°	416.1	270.1	165.6	61.1
52.5°	388.6	242.4	149.9	57.4
55°	348.6	203.9	128.5	53.1
57.5°	311.1	170.9	110.1	49.3
60°	287.6	153.0	100.3	47.5
62.5°	264.0	136.6	90.7	44.8
65°	231.0	116.2	79.0	41.8
67.5°	200.8	100.9	69.3	37.8
70°	182.4	93.3	64.2	35.1
72.5°	162.2	85.1	59.2	33.2
75°	129.6	71.6	50.5	29.4
77.5°	91.2	55.5	39.7	24.0
80°	59.5	45.5	32.9	20.4
82.5°	43.9	35.4	26.1	16.7
85°	24.5	21.2	15.7	10.2
87.5°	6.9	7.6	5.6	3.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P1435883

CATALOG NUMBER: SQ2W-FB-0U-050D-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	14.57	16.26	14.94	16.57	16.89	24.17	25.85	24.53	26.17	26.48
	3H	15.57	17.09	15.95	17.42	17.78	25.84	27.36	26.21	27.69	28.04
	4H	16.01	17.44	16.40	17.79	18.16	26.05	27.48	26.45	27.83	28.21
	6H	16.30	17.63	16.71	18.00	18.39	26.17	27.50	26.58	27.86	28.25
	8H	16.42	17.69	16.84	18.08	18.47	26.21	27.48	26.63	27.87	28.27
	12H	16.49	17.71	16.92	18.09	18.52	26.21	27.43	26.64	27.81	28.24
4H	2H	19.39	20.82	19.79	21.17	21.55	24.63	26.07	25.03	26.41	26.79
	3H	20.59	21.79	21.00	22.19	22.59	26.59	27.80	27.00	28.19	28.59
	4H	20.91	21.99	21.34	22.41	22.84	26.85	27.94	27.28	28.35	28.78
	6H	21.09	22.04	21.55	22.48	22.93	27.03	27.98	27.49	28.42	28.87
	8H	21.15	22.04	21.61	22.48	22.94	27.10	27.98	27.56	28.42	28.89
	12H	21.20	21.99	21.68	22.47	22.93	27.12	27.91	27.60	28.39	28.86
8H	4H	22.17	23.06	22.63	23.50	23.96	27.01	27.90	27.47	28.34	28.80
	6H	22.47	23.20	22.96	23.69	24.16	27.25	27.98	27.74	28.47	28.94
	8H	22.58	23.23	23.09	23.74	24.22	27.35	28.01	27.86	28.51	29.00
	12H	22.66	23.24	23.16	23.73	24.29	27.39	27.97	27.90	28.46	29.02
12H	4H	22.24	23.03	22.72	23.51	23.97	27.00	27.80	27.48	28.27	28.74
	6H	22.59	23.24	23.09	23.75	24.23	27.24	27.90	27.75	28.40	28.89
	8H	22.76	23.34	23.27	23.83	24.39	27.38	27.96	27.89	28.45	29.01