

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: P1436029

Luminaire Tested: SQ2W-FB-K-150U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1436029
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-K-150U-050D-L840-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 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

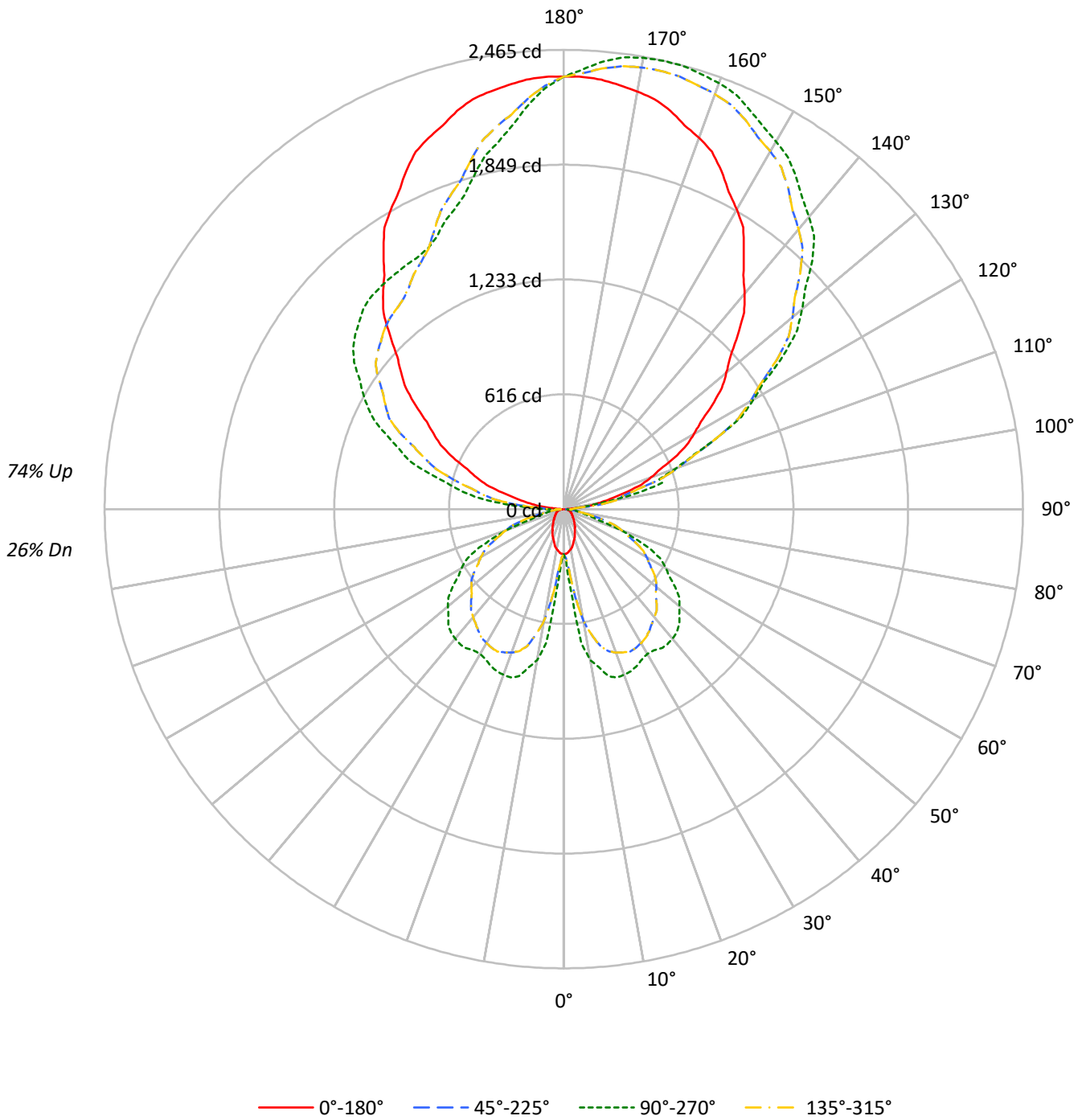
Lumens per Lamp: N/A
Luminaire Lumens: 9179.9 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.9
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	50	30	10	0	
RCR																						
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26				
1	92	88	84	81	82	79	76	73	61	59	57	45	44	42	30	29	29	22				
2	84	77	71	66	75	69	64	59	53	50	47	39	37	35	26	25	24	18				
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15				
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13				
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11				
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9				
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	15	13	11	8				
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10	7				
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9	6				
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3914	3914	3914	3914
5°	3815	6932	3815	6932
10°	3572	13489	3572	13489
15°	3234	15525	3234	15525
20°	2864	16259	2864	16259
25°	2533	16527	2533	16527
30°	2237	16730	2237	16730
35°	1999	17985	1999	17985
40°	1817	19110	1817	19110
45°	1676	20011	1676	20011
50°	1580	20373	1580	20373
55°	1543	20535	1543	20535
60°	1579	20434	1579	20434
65°	1647	19858	1647	19858
70°	1704	15021	1704	15021
75°	1890	8291	1890	8291
80°	1953	7689	1953	7689
85°	1945	3242	1945	3242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 20722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	0.4
10°-20°	185.3	2.0
20°-30°	326.1	3.6
30°-40°	422.1	4.6
40°-50°	465.5	5.1
50°-60°	434.5	4.7
60°-70°	335.7	3.7
70°-80°	154.7	1.7
80°-90°	39.2	0.4
90°-100°	184.7	2.0
100°-110°	538.6	5.9
110°-120°	879.0	9.6
120°-130°	1115.4	12.2
130°-140°	1193.5	13.0
140°-150°	1114.5	12.1
150°-160°	917.1	10.0
160°-170°	615.0	6.7
170°-180°	218.4	2.4
0°-30°	552.0	6.0
0°-40°	974.1	10.6
0°-60°	1874.1	20.4
0°-90°	2403.7	26.2
90°-120°	1602.3	17.5
90°-150°	5025.7	54.7
90°-180°	6776.0	73.8
0°-180°	9179.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	242	242	242	242	242	
5°	235	428	235	428	235	22
15°	194	929	194	929	194	54
25°	142	928	142	928	142	65
35°	101	912	101	912	101	64
45°	73	876	73	876	73	57
55°	55	730	55	730	55	49
65°	43	520	43	520	43	42
75°	30	133	30	133	30	31
85°	10	18	10	18	10	11
90°	7	52	7	101	7	6
95°	73	54	73	316	73	88
105°	342	548	342	755	342	364
115°	656	910	656	1120	656	647
125°	970	1442	970	1374	970	868
135°	1320	1887	1320	1521	1320	1020
145°	1686	2175	1686	1554	1686	1055
155°	2002	2363	2002	1613	2002	920
165°	2213	2464	2213	1857	2213	623
175°	2314	2412	2314	2178	2314	220
180°	2321	2321	2321	2321	2321	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	240.5	245.1	249.7	254.5	259.5	264.9	270.7	275.7	278.1	280.6	278.1
5°	235.4	251.0	266.5	289.0	313.9	342.1	373.7	400.8	414.2	427.7	414.2
7.5°	226.3	257.9	289.5	356.5	435.2	516.9	601.7	671.9	698.9	725.8	698.9
10°	217.9	262.0	306.0	419.5	556.3	661.4	735.0	793.8	808.3	822.8	808.3
12.5°	208.6	268.4	328.2	468.3	635.3	744.6	796.2	838.6	853.5	868.5	853.5
15°	193.5	278.9	364.4	522.9	705.7	818.1	860.1	895.7	912.3	928.8	912.3
17.5°	177.8	291.6	405.3	567.0	744.7	854.3	895.8	929.2	938.2	947.2	938.2
20°	166.7	300.3	433.9	595.9	767.4	870.9	906.7	934.9	940.6	946.3	940.6
22.5°	156.4	305.8	455.2	617.4	783.8	880.6	907.6	929.4	935.5	941.7	935.5
25°	142.2	310.5	478.9	640.6	800.1	888.4	905.5	919.4	923.5	927.7	923.5
27.5°	128.4	306.3	484.2	643.9	797.5	879.9	891.1	900.5	904.5	908.6	904.5
30°	120.0	300.8	481.6	639.8	790.5	870.0	878.3	886.0	891.7	897.4	891.7
32.5°	112.6	294.2	475.8	632.0	779.9	857.7	865.6	874.6	886.9	899.2	886.9
35°	101.4	280.1	458.8	613.4	760.0	839.5	851.9	866.9	889.7	912.5	889.7
37.5°	91.8	262.0	432.2	585.3	732.6	819.2	845.2	870.2	892.2	914.1	892.2
40°	86.2	249.4	412.6	564.4	712.6	804.0	838.7	869.4	888.0	906.7	888.0
42.5°	80.6	235.1	389.6	540.2	689.6	784.5	825.0	860.1	878.7	897.4	878.7
45°	73.4	212.2	351.0	500.3	653.1	753.4	801.0	841.2	858.8	876.4	858.8
47.5°	66.7	187.2	307.8	457.8	617.5	722.7	773.2	814.3	827.2	840.0	827.2
50°	62.9	170.7	278.4	428.9	593.6	700.8	750.5	790.4	800.8	811.1	800.8
52.5°	59.2	154.5	249.8	400.6	569.9	677.9	724.7	762.2	771.8	781.3	771.8
55°	54.8	132.5	210.2	359.3	532.3	639.3	680.2	713.0	721.3	729.5	721.3
57.5°	50.8	113.5	176.2	320.6	492.4	595.7	630.6	658.5	665.2	672.0	665.2
60°	48.9	103.3	157.7	296.4	463.2	562.4	594.0	619.4	626.1	632.8	626.1
62.5°	46.2	93.5	140.8	272.2	431.5	525.7	554.8	578.2	584.5	590.9	584.5
65°	43.1	81.4	119.8	238.1	383.2	467.8	492.2	511.5	515.6	519.8	515.6
67.5°	38.9	71.5	104.0	207.0	333.5	404.3	419.4	428.8	421.0	413.3	421.0
70°	36.1	66.2	96.2	188.0	300.4	359.2	364.4	362.7	340.4	318.2	340.4
72.5°	34.3	61.0	87.7	167.2	264.3	307.1	295.7	276.6	234.5	192.3	234.5
75°	30.3	52.1	73.8	133.6	206.1	217.5	167.8	130.8	131.8	132.9	131.8
77.5°	24.7	41.0	57.2	94.0	137.6	146.3	120.0	100.5	101.4	102.3	101.4
80°	21.0	33.9	46.9	61.4	76.4	83.4	82.4	81.7	82.2	82.7	82.2
82.5°	17.2	26.9	36.5	45.2	53.6	58.3	59.4	60.0	59.2	58.5	59.2
85°	10.5	16.2	21.9	25.3	27.8	27.1	22.9	19.6	18.5	17.5	18.5
87.5°	5.1	9.1	13.5	14.6	14.4	14.0	14.0	14.5	15.0	15.0	15.0
90°	7.0	16.4	28.1	37.5	44.5	46.9	46.9	49.2	51.6	51.6	51.6
92.5°	25.8	40.8	41.3	41.3	50.2	54.4	58.1	58.6	60.9	60.9	60.9
95°	72.7	79.7	119.6	117.2	79.7	63.3	53.9	53.9	53.9	53.9	53.9
97.5°	138.8	149.1	155.7	208.6	220.4	212.9	173.5	145.8	130.3	123.3	130.3
100°	196.9	201.6	215.7	218.0	276.6	332.9	304.7	269.6	257.9	250.8	257.9
102.5°	255.0	257.9	279.4	289.3	302.9	334.7	432.3	421.5	413.5	412.1	413.5
105°	342.3	344.6	384.4	403.2	412.6	412.6	410.2	457.1	532.1	548.5	532.1
107.5°	435.5	446.3	493.2	543.4	554.2	557.0	544.8	537.8	534.9	536.8	534.9
110°	499.3	515.7	572.0	635.3	651.7	656.4	651.7	644.7	640.0	640.0	640.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	561.2	585.1	648.9	721.5	749.2	763.3	753.0	747.8	743.1	746.9	743.1
115°	656.4	691.5	775.9	850.9	907.2	914.2	911.9	911.9	909.5	909.5	909.5
117.5°	744.5	800.8	895.5	982.7	1047.9	1066.6	1076.0	1073.2	1070.4	1075.0	1070.4
120°	806.4	872.0	979.9	1078.3	1141.6	1169.7	1179.1	1174.4	1179.1	1174.4	1179.1
122.5°	872.0	952.7	1058.6	1160.8	1235.4	1267.3	1278.5	1279.5	1280.4	1277.6	1280.4
125°	970.5	1068.9	1193.2	1298.7	1376.0	1413.5	1422.9	1425.3	1430.0	1441.7	1430.0
127.5°	1069.9	1181.5	1317.9	1419.6	1498.9	1544.3	1558.9	1564.0	1573.9	1579.0	1573.9
130°	1139.3	1265.9	1404.2	1500.3	1577.6	1626.9	1652.7	1659.7	1671.4	1669.1	1671.4
132.5°	1212.4	1344.6	1484.8	1584.7	1656.4	1709.4	1731.4	1751.6	1755.8	1759.1	1755.8
135°	1319.8	1462.8	1603.4	1701.9	1769.9	1821.4	1849.6	1868.3	1880.0	1887.1	1880.0
137.5°	1432.8	1583.7	1718.8	1806.4	1874.9	1919.4	1951.3	1971.0	1983.2	1988.8	1983.2
140°	1509.7	1655.0	1786.3	1877.7	1938.6	1983.2	2011.3	2034.8	2048.8	2048.8	2048.8
142.5°	1582.8	1726.3	1853.8	1945.2	1998.7	2039.4	2069.4	2087.3	2103.2	2103.2	2103.2
145°	1685.5	1828.5	1945.7	2037.1	2081.6	2119.1	2152.0	2166.0	2175.4	2175.4	2175.4
147.5°	1792.8	1919.4	2026.3	2114.0	2151.5	2195.6	2221.3	2232.6	2244.3	2239.2	2244.3
150°	1856.6	1973.8	2076.9	2159.0	2196.5	2238.7	2264.5	2273.9	2285.6	2278.5	2285.6
152.5°	1918.5	2030.1	2123.8	2200.3	2232.1	2274.3	2303.9	2313.2	2321.2	2316.1	2321.2
155°	2001.9	2100.4	2187.1	2257.5	2285.6	2325.4	2353.6	2365.3	2374.7	2362.9	2374.7
157.5°	2076.5	2161.3	2236.8	2301.5	2331.5	2365.8	2392.0	2406.5	2415.9	2410.8	2415.9
160°	2121.5	2198.8	2266.8	2327.8	2355.9	2386.4	2414.5	2430.9	2440.3	2433.3	2440.3
162.5°	2159.0	2228.9	2293.1	2348.4	2372.8	2399.5	2433.3	2447.8	2457.2	2448.3	2457.2
165°	2212.9	2269.2	2325.4	2372.3	2393.4	2414.5	2449.7	2466.1	2473.1	2463.7	2473.1
167.5°	2253.7	2296.8	2342.3	2382.6	2398.1	2418.7	2453.9	2467.5	2476.4	2464.7	2476.4
170°	2276.2	2313.7	2353.6	2386.4	2398.1	2416.9	2452.0	2463.7	2470.8	2459.1	2470.8
172.5°	2295.0	2323.1	2355.4	2384.5	2390.6	2405.6	2438.9	2450.6	2455.8	2445.9	2455.8
175°	2313.7	2330.1	2353.6	2372.3	2370.0	2379.3	2407.5	2416.9	2426.2	2412.2	2426.2
177.5°	2322.6	2330.1	2337.6	2348.9	2341.4	2341.4	2362.0	2367.6	2369.5	2362.0	2369.5
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	275.7	270.7	264.9	259.5	254.5	249.7	245.1	240.5	245.1	249.7	254.5
5°	400.8	373.7	342.1	313.9	289.0	266.5	251.0	235.4	251.0	266.5	289.0
7.5°	671.9	601.7	516.9	435.2	356.5	289.5	257.9	226.3	257.9	289.5	356.5
10°	793.8	735.0	661.4	556.3	419.5	306.0	262.0	217.9	262.0	306.0	419.5
12.5°	838.6	796.2	744.6	635.3	468.3	328.2	268.4	208.6	268.4	328.2	468.3
15°	895.7	860.1	818.1	705.7	522.9	364.4	278.9	193.5	278.9	364.4	522.9
17.5°	929.2	895.8	854.3	744.7	567.0	405.3	291.6	177.8	291.6	405.3	567.0
20°	934.9	906.7	870.9	767.4	595.9	433.9	300.3	166.7	300.3	433.9	595.9
22.5°	929.4	907.6	880.6	783.8	617.4	455.2	305.8	156.4	305.8	455.2	617.4
25°	919.4	905.5	888.4	800.1	640.6	478.9	310.5	142.2	310.5	478.9	640.6
27.5°	900.5	891.1	879.9	797.5	643.9	484.2	306.3	128.4	306.3	484.2	643.9
30°	886.0	878.3	870.0	790.5	639.8	481.6	300.8	120.0	300.8	481.6	639.8
32.5°	874.6	865.6	857.7	779.9	632.0	475.8	294.2	112.6	294.2	475.8	632.0
35°	866.9	851.9	839.5	760.0	613.4	458.8	280.1	101.4	280.1	458.8	613.4
37.5°	870.2	845.2	819.2	732.6	585.3	432.2	262.0	91.8	262.0	432.2	585.3
40°	869.4	838.7	804.0	712.6	564.4	412.6	249.4	86.2	249.4	412.6	564.4
42.5°	860.1	825.0	784.5	689.6	540.2	389.6	235.1	80.6	235.1	389.6	540.2
45°	841.2	801.0	753.4	653.1	500.3	351.0	212.2	73.4	212.2	351.0	500.3
47.5°	814.3	773.2	722.7	617.5	457.8	307.8	187.2	66.7	187.2	307.8	457.8
50°	790.4	750.5	700.8	593.6	428.9	278.4	170.7	62.9	170.7	278.4	428.9
52.5°	762.2	724.7	677.9	569.9	400.6	249.8	154.5	59.2	154.5	249.8	400.6
55°	713.0	680.2	639.3	532.3	359.3	210.2	132.5	54.8	132.5	210.2	359.3
57.5°	658.5	630.6	595.7	492.4	320.6	176.2	113.5	50.8	113.5	176.2	320.6
60°	619.4	594.0	562.4	463.2	296.4	157.7	103.3	48.9	103.3	157.7	296.4
62.5°	578.2	554.8	525.7	431.5	272.2	140.8	93.5	46.2	93.5	140.8	272.2
65°	511.5	492.2	467.8	383.2	238.1	119.8	81.4	43.1	81.4	119.8	238.1
67.5°	428.8	419.4	404.3	333.5	207.0	104.0	71.5	38.9	71.5	104.0	207.0
70°	362.7	364.4	359.2	300.4	188.0	96.2	66.2	36.1	66.2	96.2	188.0
72.5°	276.6	295.7	307.1	264.3	167.2	87.7	61.0	34.3	61.0	87.7	167.2
75°	130.8	167.8	217.5	206.1	133.6	73.8	52.1	30.3	52.1	73.8	133.6
77.5°	100.5	120.0	146.3	137.6	94.0	57.2	41.0	24.7	41.0	57.2	94.0
80°	81.7	82.4	83.4	76.4	61.4	46.9	33.9	21.0	33.9	46.9	61.4
82.5°	60.0	59.4	58.3	53.6	45.2	36.5	26.9	17.2	26.9	36.5	45.2
85°	19.6	22.9	27.1	27.8	25.3	21.9	16.2	10.5	16.2	21.9	25.3
87.5°	14.5	14.0	14.0	14.4	14.6	13.5	9.1	5.1	9.1	13.0	15.6
90°	49.2	46.9	46.9	44.5	37.5	28.1	16.4	7.0	16.4	25.8	42.2
92.5°	58.6	58.1	54.4	50.2	41.3	41.3	40.8	25.8	44.5	63.3	91.0
95°	53.9	53.9	63.3	79.7	117.2	119.6	79.7	72.7	103.1	145.3	182.8
97.5°	145.8	173.5	212.9	220.4	208.6	155.7	149.1	138.8	188.9	230.7	291.1
100°	269.6	304.7	332.9	276.6	218.0	215.7	201.6	196.9	250.8	290.7	349.3
102.5°	421.5	432.3	334.7	302.9	289.3	279.4	257.9	255.0	309.0	363.8	413.0
105°	457.1	410.2	412.6	412.6	403.2	384.4	344.6	342.3	403.2	466.5	527.4
107.5°	537.8	544.8	557.0	554.2	543.4	493.2	446.3	435.5	490.4	566.4	633.4
110°	644.7	651.7	656.4	651.7	635.3	572.0	515.7	499.3	548.5	628.2	700.9



TEST NUMBER: P1436029

CATALOG NUMBER: SQ2W-FB-K-150U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	747.8	753.0	763.3	749.2	721.5	648.9	585.1	561.2	610.4	692.0	766.5
115°	911.9	911.9	914.2	907.2	850.9	775.9	691.5	656.4	698.6	773.6	855.6
117.5°	1073.2	1076.0	1066.6	1047.9	982.7	895.5	800.8	744.5	777.8	857.0	941.4
120°	1174.4	1179.1	1169.7	1141.6	1078.3	979.9	872.0	806.4	832.2	909.5	993.9
122.5°	1279.5	1278.5	1267.3	1235.4	1160.8	1058.6	952.7	872.0	882.8	954.6	1037.1
125°	1425.3	1422.9	1413.5	1376.0	1298.7	1193.2	1068.9	970.5	956.4	1017.4	1101.8
127.5°	1564.0	1558.9	1544.3	1498.9	1419.6	1317.9	1181.5	1069.9	1038.5	1076.9	1154.3
130°	1659.7	1652.7	1626.9	1577.6	1500.3	1404.2	1265.9	1139.3	1094.7	1118.2	1186.2
132.5°	1751.6	1731.4	1709.4	1656.4	1584.7	1484.8	1344.6	1212.4	1151.0	1161.3	1214.3
135°	1868.3	1849.6	1821.4	1769.9	1701.9	1603.4	1462.8	1319.8	1235.4	1226.0	1256.5
137.5°	1971.0	1951.3	1919.4	1874.9	1806.4	1718.8	1583.7	1432.8	1326.3	1294.9	1306.6
140°	2034.8	2011.3	1983.2	1938.6	1877.7	1786.3	1655.0	1509.7	1390.1	1345.6	1338.5
142.5°	2087.3	2069.4	2039.4	1998.7	1945.2	1853.8	1726.3	1582.8	1455.7	1398.1	1381.7
145°	2166.0	2152.0	2119.1	2081.6	2037.1	1945.7	1828.5	1685.5	1558.9	1483.9	1448.7
147.5°	2232.6	2221.3	2195.6	2151.5	2114.0	2026.3	1919.4	1792.8	1663.0	1570.1	1524.7
150°	2273.9	2264.5	2238.7	2196.5	2159.0	2076.9	1973.8	1856.6	1732.4	1633.9	1575.3
152.5°	2313.2	2303.9	2274.3	2232.1	2200.3	2123.8	2030.1	1918.5	1792.4	1693.9	1633.4
155°	2365.3	2353.6	2325.4	2285.6	2257.5	2187.1	2100.4	2001.9	1894.1	1791.0	1723.0
157.5°	2406.5	2392.0	2365.8	2331.5	2301.5	2236.8	2161.3	2076.5	1982.2	1883.8	1814.4
160°	2430.9	2414.5	2386.4	2355.9	2327.8	2266.8	2198.8	2121.5	2034.8	1945.7	1870.7
162.5°	2447.8	2433.3	2399.5	2372.8	2348.4	2293.1	2228.9	2159.0	2081.6	2003.8	1934.4
165°	2466.1	2449.7	2414.5	2393.4	2372.3	2325.4	2269.2	2212.9	2147.3	2084.0	2027.7
167.5°	2467.5	2453.9	2418.7	2398.1	2382.6	2342.3	2296.8	2253.7	2202.6	2152.9	2106.0
170°	2463.7	2452.0	2416.9	2398.1	2386.4	2353.6	2313.7	2276.2	2236.4	2194.2	2156.7
172.5°	2450.6	2438.9	2405.6	2390.6	2384.5	2355.4	2323.1	2295.0	2260.7	2229.8	2199.8
175°	2416.9	2407.5	2379.3	2370.0	2372.3	2353.6	2330.1	2313.7	2292.6	2273.9	2257.5
177.5°	2367.6	2362.0	2341.4	2341.4	2348.9	2337.6	2330.1	2322.6	2313.2	2307.6	2302.0
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	259.5	264.9	270.7	275.7	278.1	280.6	278.1	275.7	270.7	264.9	259.5
5°	313.9	342.1	373.7	400.8	414.2	427.7	414.2	400.8	373.7	342.1	313.9
7.5°	435.2	516.9	601.7	671.9	698.9	725.8	698.9	671.9	601.7	516.9	435.2
10°	556.3	661.4	735.0	793.8	808.3	822.8	808.3	793.8	735.0	661.4	556.3
12.5°	635.3	744.6	796.2	838.6	853.5	868.5	853.5	838.6	796.2	744.6	635.3
15°	705.7	818.1	860.1	895.7	912.3	928.8	912.3	895.7	860.1	818.1	705.7
17.5°	744.7	854.3	895.8	929.2	938.2	947.2	938.2	929.2	895.8	854.3	744.7
20°	767.4	870.9	906.7	934.9	940.6	946.3	940.6	934.9	906.7	870.9	767.4
22.5°	783.8	880.6	907.6	929.4	935.5	941.7	935.5	929.4	907.6	880.6	783.8
25°	800.1	888.4	905.5	919.4	923.5	927.7	923.5	919.4	905.5	888.4	800.1
27.5°	797.5	879.9	891.1	900.5	904.5	908.6	904.5	900.5	891.1	879.9	797.5
30°	790.5	870.0	878.3	886.0	891.7	897.4	891.7	886.0	878.3	870.0	790.5
32.5°	779.9	857.7	865.6	874.6	886.9	899.2	886.9	874.6	865.6	857.7	779.9
35°	760.0	839.5	851.9	866.9	889.7	912.5	889.7	866.9	851.9	839.5	760.0
37.5°	732.6	819.2	845.2	870.2	892.2	914.1	892.2	870.2	845.2	819.2	732.6
40°	712.6	804.0	838.7	869.4	888.0	906.7	888.0	869.4	838.7	804.0	712.6
42.5°	689.6	784.5	825.0	860.1	878.7	897.4	878.7	860.1	825.0	784.5	689.6
45°	653.1	753.4	801.0	841.2	858.8	876.4	858.8	841.2	801.0	753.4	653.1
47.5°	617.5	722.7	773.2	814.3	827.2	840.0	827.2	814.3	773.2	722.7	617.5
50°	593.6	700.8	750.5	790.4	800.8	811.1	800.8	790.4	750.5	700.8	593.6
52.5°	569.9	677.9	724.7	762.2	771.8	781.3	771.8	762.2	724.7	677.9	569.9
55°	532.3	639.3	680.2	713.0	721.3	729.5	721.3	713.0	680.2	639.3	532.3
57.5°	492.4	595.7	630.6	658.5	665.2	672.0	665.2	658.5	630.6	595.7	492.4
60°	463.2	562.4	594.0	619.4	626.1	632.8	626.1	619.4	594.0	562.4	463.2
62.5°	431.5	525.7	554.8	578.2	584.5	590.9	584.5	578.2	554.8	525.7	431.5
65°	383.2	467.8	492.2	511.5	515.6	519.8	515.6	511.5	492.2	467.8	383.2
67.5°	333.5	404.3	419.4	428.8	421.0	413.3	421.0	428.8	419.4	404.3	333.5
70°	300.4	359.2	364.4	362.7	340.4	318.2	340.4	362.7	364.4	359.2	300.4
72.5°	264.3	307.1	295.7	276.6	234.5	192.3	234.5	276.6	295.7	307.1	264.3
75°	206.1	217.5	167.8	130.8	131.8	132.9	131.8	130.8	167.8	217.5	206.1
77.5°	137.6	146.3	120.0	100.5	101.4	102.3	101.4	100.5	120.0	146.3	137.6
80°	76.4	83.4	82.4	81.7	82.2	82.7	82.2	81.7	82.4	83.4	76.4
82.5°	53.6	58.3	59.4	60.0	59.2	58.5	59.2	60.0	59.4	58.3	53.6
85°	27.8	27.1	22.9	19.6	18.5	17.5	18.5	19.6	22.9	27.1	27.8
87.5°	16.3	18.7	22.0	23.9	25.8	24.8	25.8	23.9	22.0	18.7	16.3
90°	53.9	70.3	86.7	96.1	105.5	100.8	105.5	96.1	86.7	70.3	53.9
92.5°	108.3	136.0	156.1	173.0	180.5	179.6	180.5	173.0	156.1	136.0	108.3
95°	218.0	250.8	283.6	307.1	321.2	316.5	321.2	307.1	283.6	250.8	218.0
97.5°	336.2	380.2	416.8	438.8	452.9	462.3	452.9	438.8	416.8	380.2	336.2
100°	414.9	457.1	499.3	525.1	548.5	557.9	548.5	525.1	499.3	457.1	414.9
102.5°	478.7	534.0	580.0	607.6	627.3	636.7	627.3	607.6	580.0	534.0	478.7
105°	583.7	642.3	691.5	726.7	747.8	754.8	747.8	726.7	691.5	642.3	583.7
107.5°	688.7	749.2	794.7	833.6	859.4	874.4	859.4	833.6	794.7	749.2	688.7
110°	771.2	820.5	869.7	904.9	930.6	940.0	930.6	904.9	869.7	820.5	771.2



TEST NUMBER: P1436029

CATALOG NUMBER: SQ2W-FB-K-150U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	840.6	895.5	944.7	979.9	1009.4	1022.5	1009.4	979.9	944.7	895.5	840.6
115°	937.7	1010.3	1054.9	1087.7	1108.8	1120.5	1108.8	1087.7	1054.9	1010.3	937.7
117.5°	1018.3	1094.3	1143.0	1168.3	1178.2	1186.6	1178.2	1168.3	1143.0	1094.3	1018.3
120°	1068.9	1139.3	1195.5	1228.4	1240.1	1244.8	1240.1	1228.4	1195.5	1139.3	1068.9
122.5°	1115.8	1182.4	1236.8	1277.1	1296.3	1301.0	1296.3	1277.1	1236.8	1182.4	1115.8
125°	1181.5	1244.8	1301.0	1340.9	1362.0	1373.7	1362.0	1340.9	1301.0	1244.8	1181.5
127.5°	1238.7	1307.1	1358.7	1394.8	1415.4	1424.8	1415.4	1394.8	1358.7	1307.1	1238.7
130°	1270.5	1340.9	1392.4	1432.3	1451.1	1460.4	1451.1	1432.3	1392.4	1340.9	1270.5
132.5°	1294.9	1369.0	1422.5	1458.6	1479.2	1488.6	1479.2	1458.6	1422.5	1369.0	1294.9
135°	1324.5	1401.8	1458.1	1493.2	1512.0	1521.4	1512.0	1493.2	1458.1	1401.8	1324.5
137.5°	1350.3	1420.6	1479.2	1516.2	1533.1	1539.2	1533.1	1516.2	1479.2	1420.6	1350.3
140°	1369.0	1430.0	1488.6	1523.7	1542.5	1544.8	1542.5	1523.7	1488.6	1430.0	1369.0
142.5°	1393.4	1441.2	1492.3	1527.5	1546.2	1550.4	1546.2	1527.5	1492.3	1441.2	1393.4
145°	1437.0	1465.1	1500.3	1533.1	1549.5	1554.2	1549.5	1533.1	1500.3	1465.1	1437.0
147.5°	1491.8	1500.7	1519.0	1540.6	1556.5	1559.8	1556.5	1540.6	1519.0	1500.7	1491.8
150°	1533.1	1530.8	1537.8	1551.9	1565.9	1563.6	1565.9	1551.9	1537.8	1530.8	1533.1
152.5°	1580.0	1566.4	1565.9	1572.5	1579.0	1578.6	1579.0	1572.5	1565.9	1566.4	1580.0
155°	1659.7	1633.9	1619.8	1615.1	1615.1	1612.8	1615.1	1615.1	1619.8	1633.9	1659.7
157.5°	1747.4	1711.3	1690.2	1678.9	1675.6	1670.5	1675.6	1678.9	1690.2	1711.3	1747.4
160°	1807.4	1767.5	1746.4	1727.7	1720.6	1713.6	1720.6	1727.7	1746.4	1767.5	1807.4
162.5°	1863.6	1825.7	1802.7	1785.8	1778.8	1768.0	1778.8	1785.8	1802.7	1825.7	1863.6
165°	1955.1	1915.2	1889.4	1875.3	1866.0	1856.6	1866.0	1875.3	1889.4	1915.2	1955.1
167.5°	2046.5	2002.9	1986.0	1970.1	1961.1	1944.3	1961.1	1970.1	1986.0	2002.9	2046.5
170°	2102.7	2062.9	2053.5	2039.4	2023.0	2004.3	2023.0	2039.4	2053.5	2062.9	2102.7
172.5°	2151.5	2124.8	2115.4	2101.3	2096.2	2081.2	2096.2	2101.3	2115.4	2124.8	2151.5
175°	2222.3	2201.2	2201.2	2198.8	2191.8	2177.7	2191.8	2198.8	2201.2	2201.2	2222.3
177.5°	2281.4	2270.1	2277.6	2277.6	2275.7	2262.6	2275.7	2277.6	2277.6	2270.1	2281.4
180°	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1436029

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	242.4	242.4	242.4	242.4
2.5°	254.5	249.7	245.1	240.5
5°	289.0	266.5	251.0	235.4
7.5°	356.5	289.5	257.9	226.3
10°	419.5	306.0	262.0	217.9
12.5°	468.3	328.2	268.4	208.6
15°	522.9	364.4	278.9	193.5
17.5°	567.0	405.3	291.6	177.8
20°	595.9	433.9	300.3	166.7
22.5°	617.4	455.2	305.8	156.4
25°	640.6	478.9	310.5	142.2
27.5°	643.9	484.2	306.3	128.4
30°	639.8	481.6	300.8	120.0
32.5°	632.0	475.8	294.2	112.6
35°	613.4	458.8	280.1	101.4
37.5°	585.3	432.2	262.0	91.8
40°	564.4	412.6	249.4	86.2
42.5°	540.2	389.6	235.1	80.6
45°	500.3	351.0	212.2	73.4
47.5°	457.8	307.8	187.2	66.7
50°	428.9	278.4	170.7	62.9
52.5°	400.6	249.8	154.5	59.2
55°	359.3	210.2	132.5	54.8
57.5°	320.6	176.2	113.5	50.8
60°	296.4	157.7	103.3	48.9
62.5°	272.2	140.8	93.5	46.2
65°	238.1	119.8	81.4	43.1
67.5°	207.0	104.0	71.5	38.9
70°	188.0	96.2	66.2	36.1
72.5°	167.2	87.7	61.0	34.3
75°	133.6	73.8	52.1	30.3
77.5°	94.0	57.2	41.0	24.7
80°	61.4	46.9	33.9	21.0
82.5°	45.2	36.5	26.9	17.2
85°	25.3	21.9	16.2	10.5
87.5°	15.6	13.0	9.1	5.1
90°	42.2	25.8	16.4	7.0
92.5°	91.0	63.3	44.5	25.8
95°	182.8	145.3	103.1	72.7
97.5°	291.1	230.7	188.9	138.8
100°	349.3	290.7	250.8	196.9
102.5°	413.0	363.8	309.0	255.0
105°	527.4	466.5	403.2	342.3
107.5°	633.4	566.4	490.4	435.5
110°	700.9	628.2	548.5	499.3



TEST NUMBER: P1436029

CATALOG NUMBER: SQ2W-FB-K-150U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	766.5	692.0	610.4	561.2
115°	855.6	773.6	698.6	656.4
117.5°	941.4	857.0	777.8	744.5
120°	993.9	909.5	832.2	806.4
122.5°	1037.1	954.6	882.8	872.0
125°	1101.8	1017.4	956.4	970.5
127.5°	1154.3	1076.9	1038.5	1069.9
130°	1186.2	1118.2	1094.7	1139.3
132.5°	1214.3	1161.3	1151.0	1212.4
135°	1256.5	1226.0	1235.4	1319.8
137.5°	1306.6	1294.9	1326.3	1432.8
140°	1338.5	1345.6	1390.1	1509.7
142.5°	1381.7	1398.1	1455.7	1582.8
145°	1448.7	1483.9	1558.9	1685.5
147.5°	1524.7	1570.1	1663.0	1792.8
150°	1575.3	1633.9	1732.4	1856.6
152.5°	1633.4	1693.9	1792.4	1918.5
155°	1723.0	1791.0	1894.1	2001.9
157.5°	1814.4	1883.8	1982.2	2076.5
160°	1870.7	1945.7	2034.8	2121.5
162.5°	1934.4	2003.8	2081.6	2159.0
165°	2027.7	2084.0	2147.3	2212.9
167.5°	2106.0	2152.9	2202.6	2253.7
170°	2156.7	2194.2	2236.4	2276.2
172.5°	2199.8	2229.8	2260.7	2295.0
175°	2257.5	2273.9	2292.6	2313.7
177.5°	2302.0	2307.6	2313.2	2322.6
180°	2320.7	2320.7	2320.7	2320.7



TEST NUMBER: P1436029
 CATALOG NUMBER: SQ2W-FB-K-150U-050D-L840-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	8.16	8.86	9.30	9.98	11.56	17.76	18.45	18.89	19.58	21.15
	3H	9.09	9.71	10.23	10.85	12.44	19.35	19.97	20.49	21.11	22.70
	4H	9.48	10.07	10.63	11.21	12.80	19.52	20.11	20.67	21.25	22.84
	6H	9.72	10.27	10.88	11.41	13.01	19.59	20.13	20.75	21.27	22.87
	8H	9.81	10.33	10.97	11.48	13.08	19.60	20.12	20.76	21.27	22.87
	12H	9.85	10.34	11.02	11.49	13.11	19.57	20.06	20.74	21.21	22.83
4H	2H	12.86	13.45	14.02	14.59	16.18	18.10	18.69	19.26	19.83	21.42
	3H	13.97	14.46	15.14	15.63	17.23	19.97	20.47	21.14	21.63	23.23
	4H	14.25	14.70	15.41	15.85	17.48	20.19	20.64	21.35	21.79	23.42
	6H	14.37	14.76	15.54	15.93	17.55	20.31	20.70	21.48	21.87	23.48
	8H	14.41	14.77	15.58	15.93	17.56	20.35	20.71	21.52	21.88	23.51
	12H	14.40	14.73	15.59	15.90	17.54	20.32	20.65	21.51	21.83	23.46
8H	4H	15.42	15.79	16.60	16.95	18.58	20.26	20.62	21.43	21.79	23.42
	6H	15.67	15.97	16.87	17.18	18.81	20.45	20.75	21.64	21.96	23.59
	8H	15.77	16.03	16.97	17.21	18.86	20.54	20.80	21.74	21.98	23.63
	12H	15.80	16.03	17.01	17.21	18.90	20.54	20.77	21.74	21.95	23.63
12H	4H	15.44	15.77	16.63	16.94	18.58	20.21	20.54	21.39	21.71	23.35
	6H	15.78	16.04	16.98	17.22	18.87	20.43	20.69	21.63	21.88	23.53
	8H	15.91	16.14	17.11	17.32	19.00	20.52	20.75	21.73	21.94	23.62