

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: P1427704

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427704  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-F-K-050U-050D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

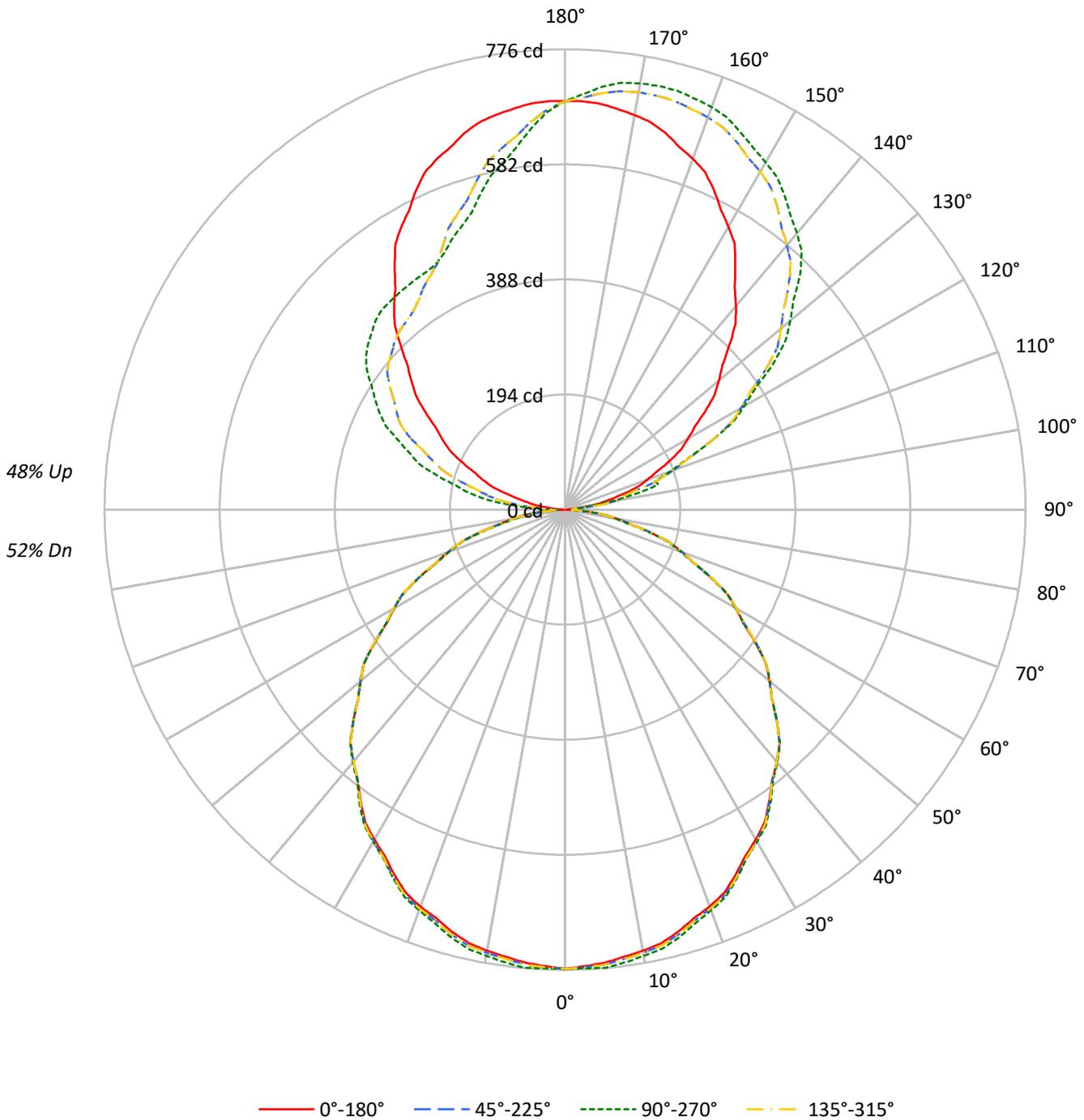
Lumens per Lamp: N/A  
Luminaire Lumens: 4192.8 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 32.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1427704

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1427704

CATALOG NUMBER: SQ2W-F-K-050U-050D-L940-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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52				
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	43				
2	89	82	75	70	82	76	70	66	64	60	57	54	51	49	45	43	41	36				
3	81	72	64	58	75	66	60	55	57	52	48	48	44	41	39	37	34	30				
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	30	26				
5	68	56	48	42	63	52	45	39	45	39	35	38	34	30	32	28	26	22				
6	63	50	42	36	58	47	40	34	40	35	30	34	30	26	29	25	22	20				
7	58	45	37	32	53	42	35	30	37	31	27	31	27	23	26	23	20	17				
8	54	41	33	28	50	39	31	27	33	28	24	28	24	21	24	20	18	15				
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14				
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	15	13				

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

	0°	90°	180°	270°
0°	12503	12503	12503	12503
5°	12428	12569	12428	12569
10°	12383	12527	12383	12527
15°	12316	12471	12316	12471
20°	12239	12359	12239	12359
25°	12105	12212	12105	12212
30°	11976	12058	11976	12058
35°	11824	11899	11824	11899
40°	11689	11725	11689	11725
45°	11519	11519	11519	11519
50°	11288	11316	11288	11316
55°	11023	11037	11023	11037
60°	10724	10724	10724	10724
65°	10376	10334	10376	10334
70°	9885	9781	9885	9781
75°	9220	9014	9220	9014
80°	8210	7810	8210	7810
85°	6558	5557	6558	5557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11597 cd/sqm



TEST NUMBER: P1427704

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	1.7
10°-20°	209.4	5.0
20°-30°	315.2	7.5
30°-40°	376.9	9.0
40°-50°	389.2	9.3
50°-60°	351.0	8.4
60°-70°	268.9	6.4
70°-80°	155.4	3.7
80°-90°	43.2	1.0
90°-100°	54.8	1.3
100°-110°	159.8	3.8
110°-120°	260.8	6.2
120°-130°	330.9	7.9
130°-140°	354.1	8.4
140°-150°	330.7	7.9
150°-160°	272.1	6.5
160°-170°	182.5	4.4
170°-180°	64.8	1.5
0°-30°	597.8	14.3
0°-40°	974.7	23.2
0°-60°	1714.9	40.9
0°-90°	2182.4	52.1
90°-120°	475.4	11.3
90°-150°	1491.1	35.6
90°-180°	2010.0	47.9
0°-180°	4192.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	774	774	774	774	774	
5°	767	776	767	776	767	73
15°	737	746	737	746	737	208
25°	680	686	680	686	680	313
35°	600	604	600	604	600	375
45°	504	504	504	504	504	389
55°	392	392	392	392	392	350
65°	272	270	272	270	272	268
75°	148	144	148	144	148	156
85°	35	30	35	30	35	41
90°	2	15	2	30	2	3
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: P1427704

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

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	770.5	774.2	777.9	776.3	773.0	771.8	772.5	773.2	773.6	774.0	773.6
5°	766.8	771.6	776.5	774.8	770.9	769.2	769.7	770.7	773.1	775.5	773.1
7.5°	760.6	765.4	770.3	768.7	765.0	763.5	764.1	765.1	767.6	770.2	767.6
10°	755.3	760.2	765.0	763.3	759.5	758.0	759.0	760.2	762.1	764.1	762.1
12.5°	748.8	753.6	758.5	757.1	753.6	752.1	752.7	753.7	755.8	758.0	755.8
15°	736.8	741.6	746.5	745.2	741.8	740.4	741.2	742.2	744.1	746.1	744.1
17.5°	722.3	726.8	731.4	730.2	727.0	725.9	726.7	727.7	729.4	731.1	729.4
20°	712.3	716.6	721.0	719.7	716.6	715.1	715.3	715.9	717.6	719.3	717.6
22.5°	700.0	704.4	708.8	707.6	704.7	702.9	702.4	702.5	704.6	706.7	704.6
25°	679.5	683.9	688.3	687.3	684.7	683.0	682.3	682.1	683.8	685.5	683.8
27.5°	658.1	661.8	665.4	664.7	662.4	661.1	660.6	660.5	661.7	662.9	661.7
30°	642.4	646.1	649.7	648.8	646.4	644.9	644.4	644.4	645.6	646.8	645.6
32.5°	625.9	629.3	632.7	631.5	628.7	627.2	627.1	627.4	628.8	630.2	628.8
35°	599.9	602.8	605.7	604.4	601.8	600.6	600.8	601.3	602.5	603.7	602.5
37.5°	573.8	576.1	578.3	577.0	574.5	573.3	573.2	573.4	574.5	575.5	574.5
40°	554.6	557.1	559.5	558.1	555.4	554.0	553.7	553.9	555.1	556.3	555.1
42.5°	535.0	536.8	538.7	537.4	535.2	534.1	534.2	534.5	535.1	535.8	535.1
45°	504.5	506.2	507.9	506.6	504.5	503.4	503.4	503.5	504.0	504.5	504.0
47.5°	472.5	473.8	475.1	474.2	472.5	471.5	471.2	471.2	471.9	472.7	471.9
50°	449.4	451.1	452.8	451.9	450.2	449.1	448.7	448.5	449.5	450.5	449.5
52.5°	426.7	428.6	430.5	429.7	428.0	426.8	426.1	425.8	426.6	427.4	426.6
55°	391.6	393.8	395.9	395.4	393.9	392.7	391.8	391.1	391.6	392.1	391.6
57.5°	355.7	357.8	360.0	359.5	358.3	357.1	355.9	355.2	355.9	356.6	355.9
60°	332.1	334.1	336.0	335.4	333.9	332.7	331.8	331.2	331.6	332.1	331.6
62.5°	308.1	310.1	312.0	311.3	309.6	308.3	307.3	306.7	307.2	307.7	307.2
65°	271.6	273.3	275.0	274.3	272.9	271.7	270.7	270.0	270.3	270.5	270.3
67.5°	234.7	236.2	237.6	236.9	235.5	234.1	232.7	231.8	232.2	232.5	232.2
70°	209.4	210.9	212.3	211.8	210.6	209.4	208.1	207.2	207.2	207.2	207.2
72.5°	185.0	186.2	187.5	186.8	185.4	184.2	183.1	182.4	182.4	182.4	182.4
75°	147.8	148.5	149.2	148.9	148.2	147.2	146.0	145.0	144.8	144.5	144.8
77.5°	111.9	111.9	111.9	111.2	110.3	109.4	108.5	107.7	107.4	107.1	107.4
80°	88.3	88.3	88.3	87.8	87.1	86.3	85.6	85.0	84.5	84.0	84.5
82.5°	66.5	66.1	65.8	65.1	64.4	63.5	62.4	61.6	62.1	62.6	62.1
85°	35.4	35.0	34.5	33.8	33.1	32.2	31.3	30.5	30.2	30.0	30.2
87.5°	11.3	11.5	11.8	11.8	11.7	11.1	10.3	9.9	9.8	9.6	9.8
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: P1427704

CATALOG NUMBER: SQ2W-F-K-050U-050D-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: P1427704

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	773.2	772.5	771.8	773.0	776.3	777.9	774.2	770.5	774.2	777.9	776.3
5°	770.7	769.7	769.2	770.9	774.8	776.5	771.6	766.8	771.6	776.5	774.8
7.5°	765.1	764.1	763.5	765.0	768.7	770.3	765.4	760.6	765.4	770.3	768.7
10°	760.2	759.0	758.0	759.5	763.3	765.0	760.2	755.3	760.2	765.0	763.3
12.5°	753.7	752.7	752.1	753.6	757.1	758.5	753.6	748.8	753.6	758.5	757.1
15°	742.2	741.2	740.4	741.8	745.2	746.5	741.6	736.8	741.6	746.5	745.2
17.5°	727.7	726.7	725.9	727.0	730.2	731.4	726.8	722.3	726.8	731.4	730.2
20°	715.9	715.3	715.1	716.6	719.7	721.0	716.6	712.3	716.6	721.0	719.7
22.5°	702.5	702.4	702.9	704.7	707.6	708.8	704.4	700.0	704.4	708.8	707.6
25°	682.1	682.3	683.0	684.7	687.3	688.3	683.9	679.5	683.9	688.3	687.3
27.5°	660.5	660.6	661.1	662.4	664.7	665.4	661.8	658.1	661.8	665.4	664.7
30°	644.4	644.4	644.9	646.4	648.8	649.7	646.1	642.4	646.1	649.7	648.8
32.5°	627.4	627.1	627.2	628.7	631.5	632.7	629.3	625.9	629.3	632.7	631.5
35°	601.3	600.8	600.6	601.8	604.4	605.7	602.8	599.9	602.8	605.7	604.4
37.5°	573.4	573.2	573.3	574.5	577.0	578.3	576.1	573.8	576.1	578.3	577.0
40°	553.9	553.7	554.0	555.4	558.1	559.5	557.1	554.6	557.1	559.5	558.1
42.5°	534.5	534.2	534.1	535.2	537.4	538.7	536.8	535.0	536.8	538.7	537.4
45°	503.5	503.4	503.4	504.5	506.6	507.9	506.2	504.5	506.2	507.9	506.6
47.5°	471.2	471.2	471.5	472.5	474.2	475.1	473.8	472.5	473.8	475.1	474.2
50°	448.5	448.7	449.1	450.2	451.9	452.8	451.1	449.4	451.1	452.8	451.9
52.5°	425.8	426.1	426.8	428.0	429.7	430.5	428.6	426.7	428.6	430.5	429.7
55°	391.1	391.8	392.7	393.9	395.4	395.9	393.8	391.6	393.8	395.9	395.4
57.5°	355.2	355.9	357.1	358.3	359.5	360.0	357.8	355.7	357.8	360.0	359.5
60°	331.2	331.8	332.7	333.9	335.4	336.0	334.1	332.1	334.1	336.0	335.4
62.5°	306.7	307.3	308.3	309.6	311.3	312.0	310.1	308.1	310.1	312.0	311.3
65°	270.0	270.7	271.7	272.9	274.3	275.0	273.3	271.6	273.3	275.0	274.3
67.5°	231.8	232.7	234.1	235.5	236.9	237.6	236.2	234.7	236.2	237.6	236.9
70°	207.2	208.1	209.4	210.6	211.8	212.3	210.9	209.4	210.9	212.3	211.8
72.5°	182.4	183.1	184.2	185.4	186.8	187.5	186.2	185.0	186.2	187.5	186.8
75°	145.0	146.0	147.2	148.2	148.9	149.2	148.5	147.8	148.5	149.2	148.9
77.5°	107.7	108.5	109.4	110.3	111.2	111.9	111.9	111.9	111.9	111.9	111.2
80°	85.0	85.6	86.3	87.1	87.8	88.3	88.3	88.3	88.3	88.3	87.8
82.5°	61.6	62.4	63.5	64.4	65.1	65.8	66.1	66.5	66.1	65.8	65.1
85°	30.5	31.3	32.2	33.1	33.8	34.5	35.0	35.4	35.0	34.5	33.8
87.5°	9.9	10.3	11.1	11.7	11.8	11.8	11.5	11.3	11.5	11.7	12.1
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: P1427704

CATALOG NUMBER: SQ2W-F-K-050U-050D-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: P1427704

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	773.0	771.8	772.5	773.2	773.6	774.0	773.6	773.2	772.5	771.8	773.0
5°	770.9	769.2	769.7	770.7	773.1	775.5	773.1	770.7	769.7	769.2	770.9
7.5°	765.0	763.5	764.1	765.1	767.6	770.2	767.6	765.1	764.1	763.5	765.0
10°	759.5	758.0	759.0	760.2	762.1	764.1	762.1	760.2	759.0	758.0	759.5
12.5°	753.6	752.1	752.7	753.7	755.8	758.0	755.8	753.7	752.7	752.1	753.6
15°	741.8	740.4	741.2	742.2	744.1	746.1	744.1	742.2	741.2	740.4	741.8
17.5°	727.0	725.9	726.7	727.7	729.4	731.1	729.4	727.7	726.7	725.9	727.0
20°	716.6	715.1	715.3	715.9	717.6	719.3	717.6	715.9	715.3	715.1	716.6
22.5°	704.7	702.9	702.4	702.5	704.6	706.7	704.6	702.5	702.4	702.9	704.7
25°	684.7	683.0	682.3	682.1	683.8	685.5	683.8	682.1	682.3	683.0	684.7
27.5°	662.4	661.1	660.6	660.5	661.7	662.9	661.7	660.5	660.6	661.1	662.4
30°	646.4	644.9	644.4	644.4	645.6	646.8	645.6	644.4	644.4	644.9	646.4
32.5°	628.7	627.2	627.1	627.4	628.8	630.2	628.8	627.4	627.1	627.2	628.7
35°	601.8	600.6	600.8	601.3	602.5	603.7	602.5	601.3	600.8	600.6	601.8
37.5°	574.5	573.3	573.2	573.4	574.5	575.5	574.5	573.4	573.2	573.3	574.5
40°	555.4	554.0	553.7	553.9	555.1	556.3	555.1	553.9	553.7	554.0	555.4
42.5°	535.2	534.1	534.2	534.5	535.1	535.8	535.1	534.5	534.2	534.1	535.2
45°	504.5	503.4	503.4	503.5	504.0	504.5	504.0	503.5	503.4	503.4	504.5
47.5°	472.5	471.5	471.2	471.2	471.9	472.7	471.9	471.2	471.2	471.5	472.5
50°	450.2	449.1	448.7	448.5	449.5	450.5	449.5	448.5	448.7	449.1	450.2
52.5°	428.0	426.8	426.1	425.8	426.6	427.4	426.6	425.8	426.1	426.8	428.0
55°	393.9	392.7	391.8	391.1	391.6	392.1	391.6	391.1	391.8	392.7	393.9
57.5°	358.3	357.1	355.9	355.2	355.9	356.6	355.9	355.2	355.9	357.1	358.3
60°	333.9	332.7	331.8	331.2	331.6	332.1	331.6	331.2	331.8	332.7	333.9
62.5°	309.6	308.3	307.3	306.7	307.2	307.7	307.2	306.7	307.3	308.3	309.6
65°	272.9	271.7	270.7	270.0	270.3	270.5	270.3	270.0	270.7	271.7	272.9
67.5°	235.5	234.1	232.7	231.8	232.2	232.5	232.2	231.8	232.7	234.1	235.5
70°	210.6	209.4	208.1	207.2	207.2	207.2	207.2	207.2	208.1	209.4	210.6
72.5°	185.4	184.2	183.1	182.4	182.4	182.4	182.4	182.4	183.1	184.2	185.4
75°	148.2	147.2	146.0	145.0	144.8	144.5	144.8	145.0	146.0	147.2	148.2
77.5°	110.3	109.4	108.5	107.7	107.4	107.1	107.4	107.7	108.5	109.4	110.3
80°	87.1	86.3	85.6	85.0	84.5	84.0	84.5	85.0	85.6	86.3	87.1
82.5°	64.4	63.5	62.4	61.6	62.1	62.6	62.1	61.6	62.4	63.5	64.4
85°	33.1	32.2	31.3	30.5	30.2	30.0	30.2	30.5	31.3	32.2	33.1
87.5°	12.2	12.5	12.7	12.6	13.0	12.5	13.0	12.6	12.7	12.5	12.2
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	25.7	20.9	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	46.3	40.3	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	84.2	74.4	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	123.7	112.8	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	148.1	135.6	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	172.1	158.4	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	205.2	190.6	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	258.0	243.4	228.8



TEST NUMBER: P1427704

CATALOG NUMBER: SQ2W-F-K-050U-050D-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: P1427704

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	774.4	774.4	774.4	774.4
2.5°	776.3	777.9	774.2	770.5
5°	774.8	776.5	771.6	766.8
7.5°	768.7	770.3	765.4	760.6
10°	763.3	765.0	760.2	755.3
12.5°	757.1	758.5	753.6	748.8
15°	745.2	746.5	741.6	736.8
17.5°	730.2	731.4	726.8	722.3
20°	719.7	721.0	716.6	712.3
22.5°	707.6	708.8	704.4	700.0
25°	687.3	688.3	683.9	679.5
27.5°	664.7	665.4	661.8	658.1
30°	648.8	649.7	646.1	642.4
32.5°	631.5	632.7	629.3	625.9
35°	604.4	605.7	602.8	599.9
37.5°	577.0	578.3	576.1	573.8
40°	558.1	559.5	557.1	554.6
42.5°	537.4	538.7	536.8	535.0
45°	506.6	507.9	506.2	504.5
47.5°	474.2	475.1	473.8	472.5
50°	451.9	452.8	451.1	449.4
52.5°	429.7	430.5	428.6	426.7
55°	395.4	395.9	393.8	391.6
57.5°	359.5	360.0	357.8	355.7
60°	335.4	336.0	334.1	332.1
62.5°	311.3	312.0	310.1	308.1
65°	274.3	275.0	273.3	271.6
67.5°	236.9	237.6	236.2	234.7
70°	211.8	212.3	210.9	209.4
72.5°	186.8	187.5	186.2	185.0
75°	148.9	149.2	148.5	147.8
77.5°	111.2	111.9	111.9	111.9
80°	87.8	88.3	88.3	88.3
82.5°	65.1	65.8	66.1	66.5
85°	33.8	34.5	35.0	35.4
87.5°	12.1	11.7	11.5	11.3
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: P1427704

CATALOG NUMBER: SQ2W-F-K-050U-050D-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: P1427704  
 CATALOG NUMBER: SQ2W-F-K-050U-050D-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	16.83	17.72	17.76	18.67	19.91	16.74	17.63	17.68	18.59	19.83
	3H	18.62	19.42	19.57	20.38	21.65	18.51	19.32	19.46	20.28	21.54
	4H	19.31	20.07	20.28	21.04	22.31	19.20	19.96	20.16	20.93	22.20
	6H	19.75	20.45	20.73	21.43	22.71	19.61	20.31	20.59	21.29	22.57
	8H	19.91	20.58	20.89	21.57	22.85	19.76	20.42	20.74	21.42	22.70
	12H	20.00	20.63	20.98	21.62	22.93	19.82	20.46	20.81	21.44	22.75
4H	2H	17.41	18.17	18.38	19.14	20.41	17.34	18.10	18.31	19.07	20.34
	3H	19.43	20.07	20.41	21.07	22.35	19.34	19.97	20.32	20.97	22.26
	4H	20.25	20.83	21.24	21.82	23.13	20.14	20.72	21.12	21.71	23.02
	6H	20.80	21.30	21.80	22.32	23.63	20.66	21.16	21.66	22.18	23.49
	8H	21.02	21.48	22.02	22.49	23.82	20.86	21.33	21.86	22.33	23.66
	12H	21.13	21.55	22.15	22.58	23.91	20.95	21.37	21.97	22.39	23.72
8H	4H	20.50	20.96	21.50	21.97	23.29	20.40	20.87	21.40	21.87	23.20
	6H	21.19	21.57	22.21	22.62	23.94	21.06	21.44	22.08	22.49	23.81
	8H	21.49	21.83	22.52	22.87	24.21	21.34	21.68	22.37	22.71	24.05
	12H	21.67	21.98	22.71	23.01	24.39	21.48	21.78	22.52	22.82	24.20
12H	4H	20.49	20.91	21.51	21.94	23.27	20.40	20.82	21.42	21.85	23.17
	6H	21.24	21.58	22.27	22.61	23.95	21.11	21.45	22.14	22.49	23.83
	8H	21.57	21.87	22.61	22.90	24.29	21.42	21.72	22.46	22.75	24.14