

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: P1435943

Luminaire Tested: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435943
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-050U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

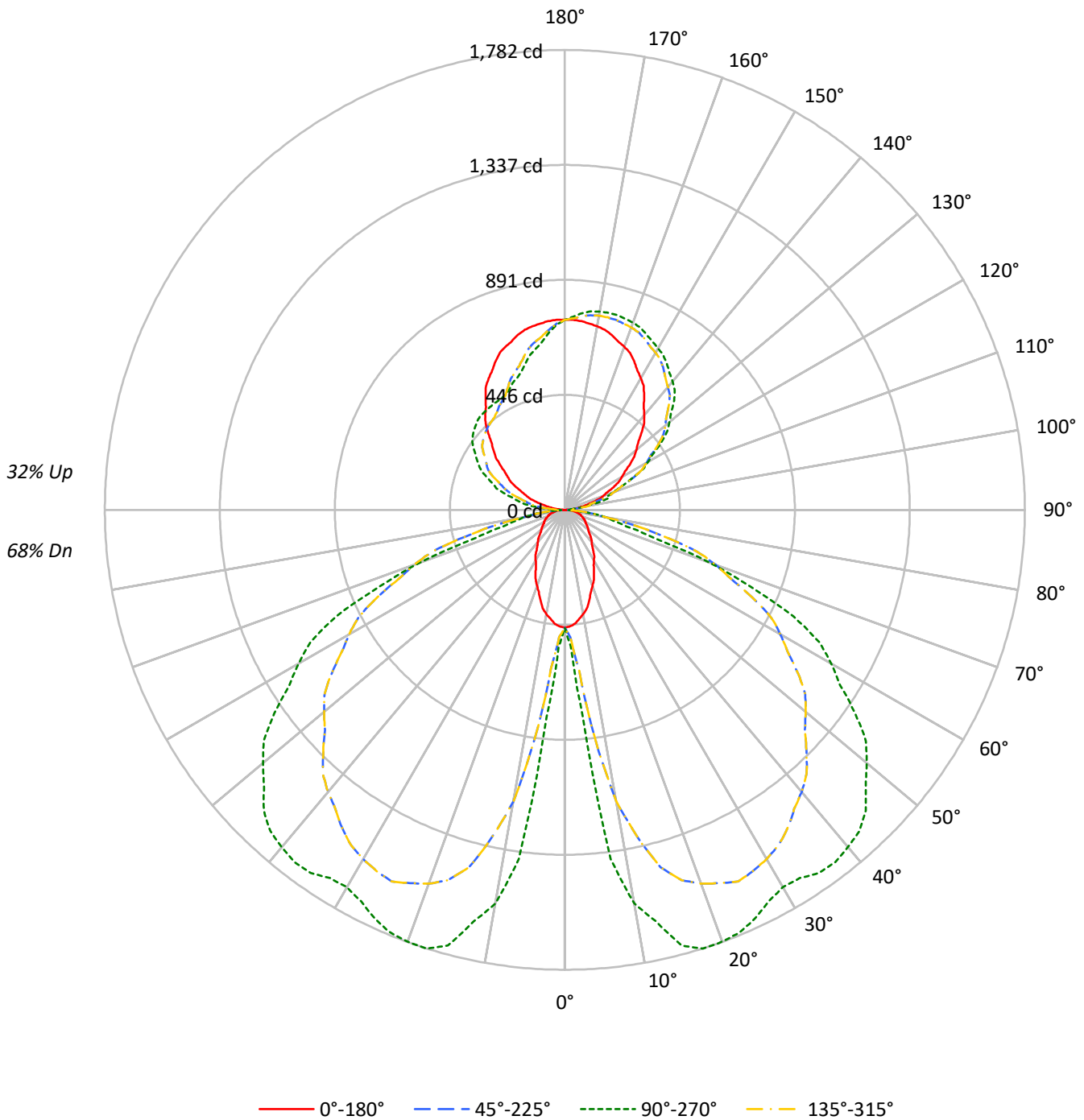
Lumens per Lamp: N/A
Luminaire Lumens: 6657.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.5
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: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	0																
RCR	0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68	68	68	68	68	68	68	68	68	68	68	68																
	1	102	97	93	89	96	92	88	85	81	79	76	72	70	68	64	62	61	57	57	57	57	57	57	57	57	57	57	57	57																
	2	92	84	78	72	86	79	74	69	71	66	62	63	59	56	55	53	50	47	47	47	47	47	47	47	47	47	47	47	47																
	3	84	73	66	59	78	69	62	57	62	56	52	55	51	47	48	45	42	39	39	39	39	39	39	39	39	39	39	39	39																
	4	76	65	56	50	71	61	53	48	55	48	43	48	43	39	43	39	36	32	32	32	32	32	32	32	32	32	32	32	32																
	5	70	57	48	42	65	54	46	40	48	42	37	43	38	34	38	34	31	28	28	28	28	28	28	28	28	28	28	28	28																
	6	64	51	42	36	60	48	40	35	43	37	32	39	33	29	34	30	26	24	24	24	24	24	24	24	24	24	24	24	24																
	7	59	46	37	31	55	43	36	30	39	33	28	35	29	25	31	27	23	21	21	21	21	21	21	21	21	21	21	21	21																
	8	55	41	33	28	51	39	32	26	35	29	24	32	26	22	28	24	20	18	18	18	18	18	18	18	18	18	18	18	18																
	9	51	38	30	24	48	36	28	23	32	26	22	29	24	20	26	21	18	16	16	16	16	16	16	16	16	16	16	16	16																
	10	47	34	27	22	44	33	26	21	30	24	19	27	21	18	24	19	16	14	14	14	14	14	14	14	14	14	14	14	14																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7364	7364	7364	7364
5°	7180	13044	7180	13044
10°	6723	25382	6723	25382
15°	6084	29215	6084	29215
20°	5388	30596	5388	30596
25°	4765	31097	4765	31097
30°	4212	31481	4212	31481
35°	3761	33844	3761	33844
40°	3421	35959	3421	35959
45°	3156	37654	3156	37654
50°	2974	38338	2974	38338
55°	2902	38643	2902	38643
60°	2974	38452	2974	38452
65°	3098	37367	3098	37367
70°	3210	28262	3210	28262
75°	3556	15595	3556	15595
80°	3673	14477	3673	14477
85°	3649	6095	3649	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 38993 cd/sqm



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.1
10°-20°	348.7	5.2
20°-30°	613.6	9.2
30°-40°	794.3	11.9
40°-50°	876.0	13.2
50°-60°	817.6	12.3
60°-70°	631.6	9.5
70°-80°	291.2	4.4
80°-90°	58.7	0.9
90°-100°	58.6	0.9
100°-110°	170.8	2.6
110°-120°	278.8	4.2
120°-130°	353.7	5.3
130°-140°	378.5	5.7
140°-150°	353.4	5.3
150°-160°	290.8	4.4
160°-170°	195.1	2.9
170°-180°	69.3	1.0
0°-30°	1038.7	15.6
0°-40°	1833.0	27.5
0°-60°	3526.6	53.0
0°-90°	4508.1	67.7
90°-120°	508.2	7.6
90°-150°	1593.8	23.9
90°-180°	2149.0	32.3
0°-180°	6657.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	443	805	443	805	443	41
15°	364	1748	364	1748	364	101
25°	268	1746	268	1746	268	123
35°	191	1717	191	1717	191	120
45°	138	1649	138	1649	138	107
55°	103	1373	103	1373	103	93
65°	81	978	81	978	81	80
75°	57	250	57	250	57	59
85°	20	33	20	33	20	21
90°	2	16	2	32	2	3
95°	23	17	23	100	23	28
105°	108	174	108	239	108	115
115°	208	288	208	355	208	205
125°	308	457	308	436	308	275
135°	418	598	418	482	418	323
145°	534	690	534	493	534	334
155°	635	749	635	512	635	292
165°	702	781	702	589	702	198
175°	734	765	734	691	734	70
180°	736	736	736	736	736	



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	452.6	461.2	469.8	478.9	488.3	498.4	509.4	518.7	523.4	528.1	523.4
5°	443.0	472.2	501.5	543.9	590.6	643.8	703.2	754.1	779.5	804.8	779.5
7.5°	425.9	485.3	544.8	670.8	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1
10°	410.1	492.9	575.8	789.5	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9
12.5°	392.5	505.0	617.5	881.3	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1
15°	364.0	524.8	685.7	983.9	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6
17.5°	334.6	548.7	762.7	1066.9	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5
20°	313.6	565.1	816.5	1121.3	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0
22.5°	294.3	575.4	856.5	1161.7	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4
25°	267.5	584.3	901.1	1205.4	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8
27.5°	241.7	576.4	911.1	1211.5	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0
30°	225.9	566.0	906.2	1203.9	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9
32.5°	211.8	553.6	895.3	1189.3	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9
35°	190.8	527.0	863.3	1154.2	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2
37.5°	172.8	493.1	813.3	1101.3	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8
40°	162.3	469.3	776.3	1062.1	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0
42.5°	151.8	442.4	733.0	1016.5	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5
45°	138.2	399.4	660.6	941.5	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0
47.5°	125.4	352.3	579.2	861.4	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5
50°	118.4	321.1	523.9	807.0	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8
52.5°	111.4	290.7	470.1	753.8	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2
55°	103.1	249.3	395.5	676.2	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2
57.5°	95.6	213.5	331.5	603.4	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8
60°	92.1	194.4	296.8	557.7	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1
62.5°	86.8	175.9	265.0	512.1	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9
65°	81.1	153.3	225.4	448.1	721.0	880.3	926.2	962.5	970.3	978.1	970.3
67.5°	73.2	134.5	195.7	389.5	627.5	760.7	789.2	806.9	792.2	777.6	792.2
70°	68.0	124.5	181.0	353.8	565.3	675.9	685.7	682.5	640.6	598.7	640.6
72.5°	64.5	114.8	165.1	314.6	497.3	577.9	556.4	520.5	441.2	361.8	441.2
75°	57.0	98.0	138.9	251.5	387.9	409.4	315.8	246.1	248.0	250.0	248.0
77.5°	46.5	77.1	107.7	176.9	259.0	275.2	225.7	189.0	190.8	192.5	190.8
80°	39.5	63.8	88.2	115.5	143.8	156.9	155.0	153.8	154.7	155.7	154.7
82.5°	32.5	50.6	68.7	85.1	100.9	109.7	111.7	112.8	111.5	110.1	111.5
85°	19.7	30.5	41.2	47.5	52.4	50.9	43.1	36.8	34.8	32.9	34.8
87.5°	7.5	12.0	16.6	15.8	13.2	11.7	11.7	11.9	12.0	12.0	12.0
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.2	18.4	18.6	19.3	19.3	19.3
95°	23.0	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.0	47.3	49.4	66.2	69.9	67.5	55.0	46.2	41.3	39.1	41.3
100°	62.4	63.9	68.4	69.1	87.7	105.6	96.6	85.5	81.8	79.5	81.8
102.5°	80.9	81.8	88.6	91.7	96.1	106.2	137.1	133.7	131.1	130.7	131.1
105°	108.5	109.3	121.9	127.9	130.8	130.8	130.1	145.0	168.8	174.0	168.8
107.5°	138.1	141.5	156.4	172.3	175.7	176.6	172.8	170.5	169.6	170.2	169.6
110°	158.3	163.6	181.4	201.5	206.7	208.2	206.7	204.4	203.0	203.0	203.0



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.0	185.6	205.8	228.8	237.6	242.1	238.8	237.2	235.7	236.9	235.7
115°	208.2	219.3	246.1	269.9	287.7	289.9	289.2	289.2	288.4	288.4	288.4
117.5°	236.1	254.0	284.0	311.6	332.3	338.3	341.2	340.3	339.4	340.9	339.4
120°	255.7	276.6	310.8	342.0	362.0	371.0	373.9	372.5	373.9	372.5	373.9
122.5°	276.6	302.1	335.7	368.1	391.8	401.9	405.5	405.8	406.1	405.2	406.1
125°	307.8	339.0	378.4	411.9	436.4	448.3	451.3	452.0	453.5	457.2	453.5
127.5°	339.3	374.7	418.0	450.2	475.3	489.8	494.4	496.0	499.1	500.8	499.1
130°	361.3	401.4	445.3	475.8	500.3	515.9	524.1	526.3	530.1	529.3	530.1
132.5°	384.5	426.4	470.9	502.6	525.3	542.1	549.1	555.5	556.8	557.9	556.8
135°	418.5	463.9	508.5	539.7	561.3	577.6	586.6	592.5	596.2	598.5	596.2
137.5°	454.4	502.3	545.1	572.9	594.6	608.7	618.8	625.1	628.9	630.7	628.9
140°	478.8	524.9	566.5	595.5	614.8	628.9	637.9	645.3	649.8	649.8	649.8
142.5°	502.0	547.5	587.9	616.9	633.8	646.8	656.3	661.9	667.0	667.0	667.0
145°	534.5	579.9	617.0	646.0	660.2	672.1	682.5	686.9	689.9	689.9	689.9
147.5°	568.6	608.7	642.6	670.4	682.3	696.3	704.5	708.0	711.8	710.1	711.8
150°	588.8	626.0	658.7	684.7	696.6	710.0	718.1	721.1	724.8	722.6	724.8
152.5°	608.4	643.8	673.5	697.8	707.9	721.3	730.6	733.6	736.1	734.5	736.1
155°	634.9	666.1	693.6	715.9	724.8	737.5	746.4	750.1	753.1	749.4	753.1
157.5°	658.5	685.4	709.4	729.9	739.4	750.3	758.6	763.2	766.2	764.5	766.2
160°	672.8	697.3	718.9	738.2	747.1	756.8	765.7	770.9	773.9	771.7	773.9
162.5°	684.7	706.8	727.2	744.8	752.5	761.0	771.7	776.3	779.3	776.4	779.3
165°	701.8	719.6	737.5	752.3	759.0	765.7	776.9	782.1	784.3	781.3	784.3
167.5°	714.7	728.4	742.8	755.6	760.5	767.1	778.2	782.5	785.4	781.6	785.4
170°	721.9	733.8	746.4	756.8	760.5	766.5	777.6	781.3	783.6	779.9	783.6
172.5°	727.8	736.7	747.0	756.2	758.1	762.9	773.5	777.2	778.8	775.7	778.8
175°	733.8	739.0	746.4	752.3	751.6	754.6	763.5	766.5	769.4	765.0	769.4
177.5°	736.6	739.0	741.3	744.9	742.5	742.5	749.1	750.9	751.5	749.1	751.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	518.7	509.4	498.4	488.3	478.9	469.8	461.2	452.6	461.2	469.8	478.9
5°	754.1	703.2	643.8	590.6	543.9	501.5	472.2	443.0	472.2	501.5	543.9
7.5°	1264.4	1132.1	972.7	818.9	670.8	544.8	485.3	425.9	485.3	544.8	670.8
10°	1493.6	1383.0	1244.6	1046.8	789.5	575.8	492.9	410.1	492.9	575.8	789.5
12.5°	1578.1	1498.2	1401.2	1195.5	881.3	617.5	505.0	392.5	505.0	617.5	881.3
15°	1685.4	1618.4	1539.5	1328.0	983.9	685.7	524.8	364.0	524.8	685.7	983.9
17.5°	1748.5	1685.7	1607.5	1401.2	1066.9	762.7	548.7	334.6	548.7	762.7	1066.9
20°	1759.2	1706.1	1638.9	1443.9	1121.3	816.5	565.1	313.6	565.1	816.5	1121.3
22.5°	1748.9	1707.9	1657.0	1474.9	1161.7	856.5	575.4	294.3	575.4	856.5	1161.7
25°	1730.0	1703.9	1671.8	1505.6	1205.4	901.1	584.3	267.5	584.3	901.1	1205.4
27.5°	1694.4	1676.7	1655.7	1500.6	1211.5	911.1	576.4	241.7	576.4	911.1	1211.5
30°	1667.1	1652.8	1637.2	1487.6	1203.9	906.2	566.0	225.9	566.0	906.2	1203.9
32.5°	1645.7	1628.8	1614.0	1467.5	1189.3	895.3	553.6	211.8	553.6	895.3	1189.3
35°	1631.3	1603.0	1579.7	1430.1	1154.2	863.3	527.0	190.8	527.0	863.3	1154.2
37.5°	1637.5	1590.5	1541.5	1378.5	1101.3	813.3	493.1	172.8	493.1	813.3	1101.3
40°	1635.9	1578.2	1512.9	1340.9	1062.1	776.3	469.3	162.3	469.3	776.3	1062.1
42.5°	1618.4	1552.5	1476.2	1297.6	1016.5	733.0	442.4	151.8	442.4	733.0	1016.5
45°	1582.8	1507.3	1417.6	1229.0	941.5	660.6	399.4	138.2	399.4	660.6	941.5
47.5°	1532.3	1455.0	1359.8	1162.0	861.4	579.2	352.3	125.4	352.3	579.2	861.4
50°	1487.3	1412.3	1318.7	1116.9	807.0	523.9	321.1	118.4	321.1	523.9	807.0
52.5°	1434.3	1363.7	1275.6	1072.3	753.8	470.1	290.7	111.4	290.7	470.1	753.8
55°	1341.6	1280.0	1203.0	1001.7	676.2	395.5	249.3	103.1	249.3	395.5	676.2
57.5°	1239.1	1186.7	1121.0	926.5	603.4	331.5	213.5	95.6	213.5	331.5	603.4
60°	1165.4	1117.7	1058.2	871.6	557.7	296.8	194.4	92.1	194.4	296.8	557.7
62.5°	1088.0	1044.0	989.2	811.9	512.1	265.0	175.9	86.8	175.9	265.0	512.1
65°	962.5	926.2	880.3	721.0	448.1	225.4	153.3	81.1	153.3	225.4	448.1
67.5°	806.9	789.2	760.7	627.5	389.5	195.7	134.5	73.2	134.5	195.7	389.5
70°	682.5	685.7	675.9	565.3	353.8	181.0	124.5	68.0	124.5	181.0	353.8
72.5°	520.5	556.4	577.9	497.3	314.6	165.1	114.8	64.5	114.8	165.1	314.6
75°	246.1	315.8	409.4	387.9	251.5	138.9	98.0	57.0	98.0	138.9	251.5
77.5°	189.0	225.7	275.2	259.0	176.9	107.7	77.1	46.5	77.1	107.7	176.9
80°	153.8	155.0	156.9	143.8	115.5	88.2	63.8	39.5	63.8	88.2	115.5
82.5°	112.8	111.7	109.7	100.9	85.1	68.7	50.6	32.5	50.6	68.7	85.1
85°	36.8	43.1	50.9	52.4	47.5	41.2	30.5	19.7	30.5	41.2	47.5
87.5°	11.9	11.7	11.7	13.2	15.8	16.6	12.0	7.5	12.0	16.5	16.1
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.2	238.8	242.1	237.6	228.8	205.8	185.6	178.0	193.6	219.5	243.1
115°	289.2	289.2	289.9	287.7	269.9	246.1	219.3	208.2	221.5	245.3	271.4
117.5°	340.3	341.2	338.3	332.3	311.6	284.0	254.0	236.1	246.7	271.8	298.6
120°	372.5	373.9	371.0	362.0	342.0	310.8	276.6	255.7	263.9	288.4	315.2
122.5°	405.8	405.5	401.9	391.8	368.1	335.7	302.1	276.6	280.0	302.7	328.9
125°	452.0	451.3	448.3	436.4	411.9	378.4	339.0	307.8	303.3	322.6	349.4
127.5°	496.0	494.4	489.8	475.3	450.2	418.0	374.7	339.3	329.3	341.5	366.1
130°	526.3	524.1	515.9	500.3	475.8	445.3	401.4	361.3	347.2	354.6	376.2
132.5°	555.5	549.1	542.1	525.3	502.6	470.9	426.4	384.5	365.0	368.3	385.1
135°	592.5	586.6	577.6	561.3	539.7	508.5	463.9	418.5	391.8	388.8	398.5
137.5°	625.1	618.8	608.7	594.6	572.9	545.1	502.3	454.4	420.6	410.7	414.4
140°	645.3	637.9	628.9	614.8	595.5	566.5	524.9	478.8	440.9	426.7	424.5
142.5°	661.9	656.3	646.8	633.8	616.9	587.9	547.5	502.0	461.7	443.4	438.2
145°	686.9	682.5	672.1	660.2	646.0	617.0	579.9	534.5	494.4	470.6	459.4
147.5°	708.0	704.5	696.3	682.3	670.4	642.6	608.7	568.6	527.4	497.9	483.5
150°	721.1	718.1	710.0	696.6	684.7	658.7	626.0	588.8	549.4	518.2	499.6
152.5°	733.6	730.6	721.3	707.9	697.8	673.5	643.8	608.4	568.4	537.2	518.0
155°	750.1	746.4	737.5	724.8	715.9	693.6	666.1	634.9	600.7	568.0	546.4
157.5°	763.2	758.6	750.3	739.4	729.9	709.4	685.4	658.5	628.6	597.4	575.4
160°	770.9	765.7	756.8	747.1	738.2	718.9	697.3	672.8	645.3	617.0	593.3
162.5°	776.3	771.7	761.0	752.5	744.8	727.2	706.8	684.7	660.2	635.5	613.5
165°	782.1	776.9	765.7	759.0	752.3	737.5	719.6	701.8	681.0	660.9	643.1
167.5°	782.5	778.2	767.1	760.5	755.6	742.8	728.4	714.7	698.5	682.8	667.9
170°	781.3	777.6	766.5	760.5	756.8	746.4	733.8	721.9	709.2	695.8	684.0
172.5°	777.2	773.5	762.9	758.1	756.2	747.0	736.7	727.8	717.0	707.1	697.6
175°	766.5	763.5	754.6	751.6	752.3	746.4	739.0	733.8	727.1	721.1	715.9
177.5°	750.9	749.1	742.5	742.5	744.9	741.3	739.0	736.6	733.6	731.8	730.0
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	488.3	498.4	509.4	518.7	523.4	528.1	523.4	518.7	509.4	498.4	488.3
5°	590.6	643.8	703.2	754.1	779.5	804.8	779.5	754.1	703.2	643.8	590.6
7.5°	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1	1264.4	1132.1	972.7	818.9
10°	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9	1493.6	1383.0	1244.6	1046.8
12.5°	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1	1578.1	1498.2	1401.2	1195.5
15°	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6	1685.4	1618.4	1539.5	1328.0
17.5°	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5	1748.5	1685.7	1607.5	1401.2
20°	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0	1759.2	1706.1	1638.9	1443.9
22.5°	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4	1748.9	1707.9	1657.0	1474.9
25°	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8	1730.0	1703.9	1671.8	1505.6
27.5°	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0	1694.4	1676.7	1655.7	1500.6
30°	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9	1667.1	1652.8	1637.2	1487.6
32.5°	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9	1645.7	1628.8	1614.0	1467.5
35°	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2	1631.3	1603.0	1579.7	1430.1
37.5°	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8	1637.5	1590.5	1541.5	1378.5
40°	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0	1635.9	1578.2	1512.9	1340.9
42.5°	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5	1618.4	1552.5	1476.2	1297.6
45°	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0	1582.8	1507.3	1417.6	1229.0
47.5°	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5	1532.3	1455.0	1359.8	1162.0
50°	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8	1487.3	1412.3	1318.7	1116.9
52.5°	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2	1434.3	1363.7	1275.6	1072.3
55°	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2	1341.6	1280.0	1203.0	1001.7
57.5°	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8	1239.1	1186.7	1121.0	926.5
60°	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1	1165.4	1117.7	1058.2	871.6
62.5°	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9	1088.0	1044.0	989.2	811.9
65°	721.0	880.3	926.2	962.5	970.3	978.1	970.3	962.5	926.2	880.3	721.0
67.5°	627.5	760.7	789.2	806.9	792.2	777.6	792.2	806.9	789.2	760.7	627.5
70°	565.3	675.9	685.7	682.5	640.6	598.7	640.6	682.5	685.7	675.9	565.3
72.5°	497.3	577.9	556.4	520.5	441.2	361.8	441.2	520.5	556.4	577.9	497.3
75°	387.9	409.4	315.8	246.1	248.0	250.0	248.0	246.1	315.8	409.4	387.9
77.5°	259.0	275.2	225.7	189.0	190.8	192.5	190.8	189.0	225.7	275.2	259.0
80°	143.8	156.9	155.0	153.8	154.7	155.7	154.7	153.8	155.0	156.9	143.8
82.5°	100.9	109.7	111.7	112.8	111.5	110.1	111.5	112.8	111.7	109.7	100.9
85°	52.4	50.9	43.1	36.8	34.8	32.9	34.8	36.8	43.1	50.9	52.4
87.5°	13.8	13.2	14.3	14.9	15.5	15.2	15.5	14.9	14.3	13.2	13.8
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	22.3	17.1	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	49.5	43.1	34.3	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.6	284.0	299.6	310.8	320.1	324.3	320.1	310.8	299.6	284.0	266.6
115°	297.4	320.4	334.5	344.9	351.6	355.4	351.6	344.9	334.5	320.4	297.4
117.5°	322.9	347.0	362.5	370.5	373.6	376.3	373.6	370.5	362.5	347.0	322.9
120°	339.0	361.3	379.1	389.6	393.3	394.8	393.3	389.6	379.1	361.3	339.0
122.5°	353.9	375.0	392.2	405.0	411.1	412.6	411.1	405.0	392.2	375.0	353.9
125°	374.7	394.8	412.6	425.2	431.9	435.6	431.9	425.2	412.6	394.8	374.7
127.5°	392.8	414.5	430.9	442.3	448.9	451.9	448.9	442.3	430.9	414.5	392.8
130°	402.9	425.2	441.6	454.2	460.2	463.2	460.2	454.2	441.6	425.2	402.9
132.5°	410.7	434.2	451.1	462.6	469.1	472.1	469.1	462.6	451.1	434.2	410.7
135°	420.0	444.6	462.4	473.6	479.5	482.5	479.5	473.6	462.4	444.6	420.0
137.5°	428.2	450.5	469.1	480.8	486.2	488.1	486.2	480.8	469.1	450.5	428.2
140°	434.2	453.5	472.1	483.2	489.2	489.9	489.2	483.2	472.1	453.5	434.2
142.5°	441.9	457.1	473.3	484.4	490.4	491.7	490.4	484.4	473.3	457.1	441.9
145°	455.7	464.6	475.8	486.2	491.4	492.9	491.4	486.2	475.8	464.6	455.7
147.5°	473.1	475.9	481.7	488.6	493.6	494.7	493.6	488.6	481.7	475.9	473.1
150°	486.2	485.5	487.7	492.1	496.6	495.9	496.6	492.1	487.7	485.5	486.2
152.5°	501.1	496.8	496.6	498.7	500.8	500.6	500.8	498.7	496.6	496.8	501.1
155°	526.3	518.2	513.7	512.2	512.2	511.5	512.2	512.2	513.7	518.2	526.3
157.5°	554.1	542.7	536.0	532.4	531.4	529.8	531.4	532.4	536.0	542.7	554.1
160°	573.2	560.5	553.9	547.9	545.7	543.4	545.7	547.9	553.9	560.5	573.2
162.5°	591.0	579.0	571.7	566.3	564.1	560.7	564.1	566.3	571.7	579.0	591.0
165°	620.0	607.4	599.2	594.7	591.8	588.8	591.8	594.7	599.2	607.4	620.0
167.5°	649.0	635.2	629.8	624.8	621.9	616.6	621.9	624.8	629.8	635.2	649.0
170°	666.9	654.2	651.2	646.8	641.6	635.6	641.6	646.8	651.2	654.2	666.9
172.5°	682.3	673.8	670.9	666.4	664.8	660.0	664.8	666.4	670.9	673.8	682.3
175°	704.8	698.1	698.1	697.3	695.1	690.6	695.1	697.3	698.1	698.1	704.8
177.5°	723.5	719.9	722.3	722.3	721.7	717.6	721.7	722.3	722.3	719.9	723.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	456.1	456.1	456.1	456.1
2.5°	478.9	469.8	461.2	452.6
5°	543.9	501.5	472.2	443.0
7.5°	670.8	544.8	485.3	425.9
10°	789.5	575.8	492.9	410.1
12.5°	881.3	617.5	505.0	392.5
15°	983.9	685.7	524.8	364.0
17.5°	1066.9	762.7	548.7	334.6
20°	1121.3	816.5	565.1	313.6
22.5°	1161.7	856.5	575.4	294.3
25°	1205.4	901.1	584.3	267.5
27.5°	1211.5	911.1	576.4	241.7
30°	1203.9	906.2	566.0	225.9
32.5°	1189.3	895.3	553.6	211.8
35°	1154.2	863.3	527.0	190.8
37.5°	1101.3	813.3	493.1	172.8
40°	1062.1	776.3	469.3	162.3
42.5°	1016.5	733.0	442.4	151.8
45°	941.5	660.6	399.4	138.2
47.5°	861.4	579.2	352.3	125.4
50°	807.0	523.9	321.1	118.4
52.5°	753.8	470.1	290.7	111.4
55°	676.2	395.5	249.3	103.1
57.5°	603.4	331.5	213.5	95.6
60°	557.7	296.8	194.4	92.1
62.5°	512.1	265.0	175.9	86.8
65°	448.1	225.4	153.3	81.1
67.5°	389.5	195.7	134.5	73.2
70°	353.8	181.0	124.5	68.0
72.5°	314.6	165.1	114.8	64.5
75°	251.5	138.9	98.0	57.0
77.5°	176.9	107.7	77.1	46.5
80°	115.5	88.2	63.8	39.5
82.5°	85.1	68.7	50.6	32.5
85°	47.5	41.2	30.5	19.7
87.5°	16.1	16.5	12.0	7.5
90°	13.4	8.2	5.2	2.2
92.5°	28.8	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.0
97.5°	92.3	73.2	59.9	44.0
100°	110.8	92.2	79.5	62.4
102.5°	131.0	115.4	98.0	80.9
105°	167.3	147.9	127.9	108.5
107.5°	200.9	179.6	155.5	138.1
110°	222.3	199.2	174.0	158.3



TEST NUMBER: P1435943

CATALOG NUMBER: SQ2W-FB-K-050U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	243.1	219.5	193.6	178.0
115°	271.4	245.3	221.5	208.2
117.5°	298.6	271.8	246.7	236.1
120°	315.2	288.4	263.9	255.7
122.5°	328.9	302.7	280.0	276.6
125°	349.4	322.6	303.3	307.8
127.5°	366.1	341.5	329.3	339.3
130°	376.2	354.6	347.2	361.3
132.5°	385.1	368.3	365.0	384.5
135°	398.5	388.8	391.8	418.5
137.5°	414.4	410.7	420.6	454.4
140°	424.5	426.7	440.9	478.8
142.5°	438.2	443.4	461.7	502.0
145°	459.4	470.6	494.4	534.5
147.5°	483.5	497.9	527.4	568.6
150°	499.6	518.2	549.4	588.8
152.5°	518.0	537.2	568.4	608.4
155°	546.4	568.0	600.7	634.9
157.5°	575.4	597.4	628.6	658.5
160°	593.3	617.0	645.3	672.8
162.5°	613.5	635.5	660.2	684.7
165°	643.1	660.9	681.0	701.8
167.5°	667.9	682.8	698.5	714.7
170°	684.0	695.8	709.2	721.9
172.5°	697.6	707.1	717.0	727.8
175°	715.9	721.1	727.1	733.8
177.5°	730.0	731.8	733.6	736.6
180°	736.0	736.0	736.0	736.0



TEST NUMBER: P1435943
 CATALOG NUMBER: SQ2W-FB-K-050U-100D-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	14.59	15.68	15.37	16.49	17.48	24.18	25.27	24.97	26.08	27.07
	3H	15.55	16.52	16.34	17.34	18.36	25.81	26.79	26.60	27.61	28.63
	4H	15.95	16.88	16.77	17.70	18.74	26.00	26.92	26.81	27.75	28.78
	6H	16.22	17.07	17.05	17.91	18.95	26.08	26.94	26.91	27.77	28.82
	8H	16.32	17.13	17.16	17.99	19.03	26.11	26.92	26.94	27.77	28.82
	12H	16.38	17.15	17.22	18.00	19.07	26.09	26.87	26.94	27.72	28.79
4H	2H	19.34	20.26	20.15	21.09	22.12	24.58	25.50	25.40	26.33	27.36
	3H	20.49	21.26	21.32	22.12	23.17	26.49	27.26	27.32	28.12	29.17
	4H	20.78	21.48	21.62	22.34	23.41	26.72	27.42	27.56	28.28	29.35
	6H	20.93	21.53	21.79	22.42	23.50	26.87	27.47	27.73	28.35	29.43
	8H	20.97	21.54	21.84	22.42	23.51	26.92	27.48	27.78	28.36	29.45
	12H	20.99	21.50	21.87	22.39	23.49	26.91	27.42	27.79	28.32	29.42
8H	4H	21.99	22.56	22.86	23.44	24.53	26.83	27.40	27.69	28.27	29.37
	6H	22.26	22.73	23.15	23.65	24.74	27.04	27.51	27.93	28.43	29.52
	8H	22.36	22.78	23.26	23.69	24.80	27.13	27.55	28.04	28.46	29.57
	12H	22.41	22.78	23.32	23.68	24.85	27.15	27.51	28.05	28.42	29.58
12H	4H	22.03	22.54	22.91	23.43	24.53	26.79	27.30	27.68	28.20	29.30
	6H	22.37	22.78	23.27	23.70	24.81	27.02	27.44	27.93	28.35	29.46
	8H	22.52	22.88	23.43	23.79	24.95	27.14	27.50	28.04	28.41	29.57