

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: P1427687

Luminaire Tested: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427687
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-025U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

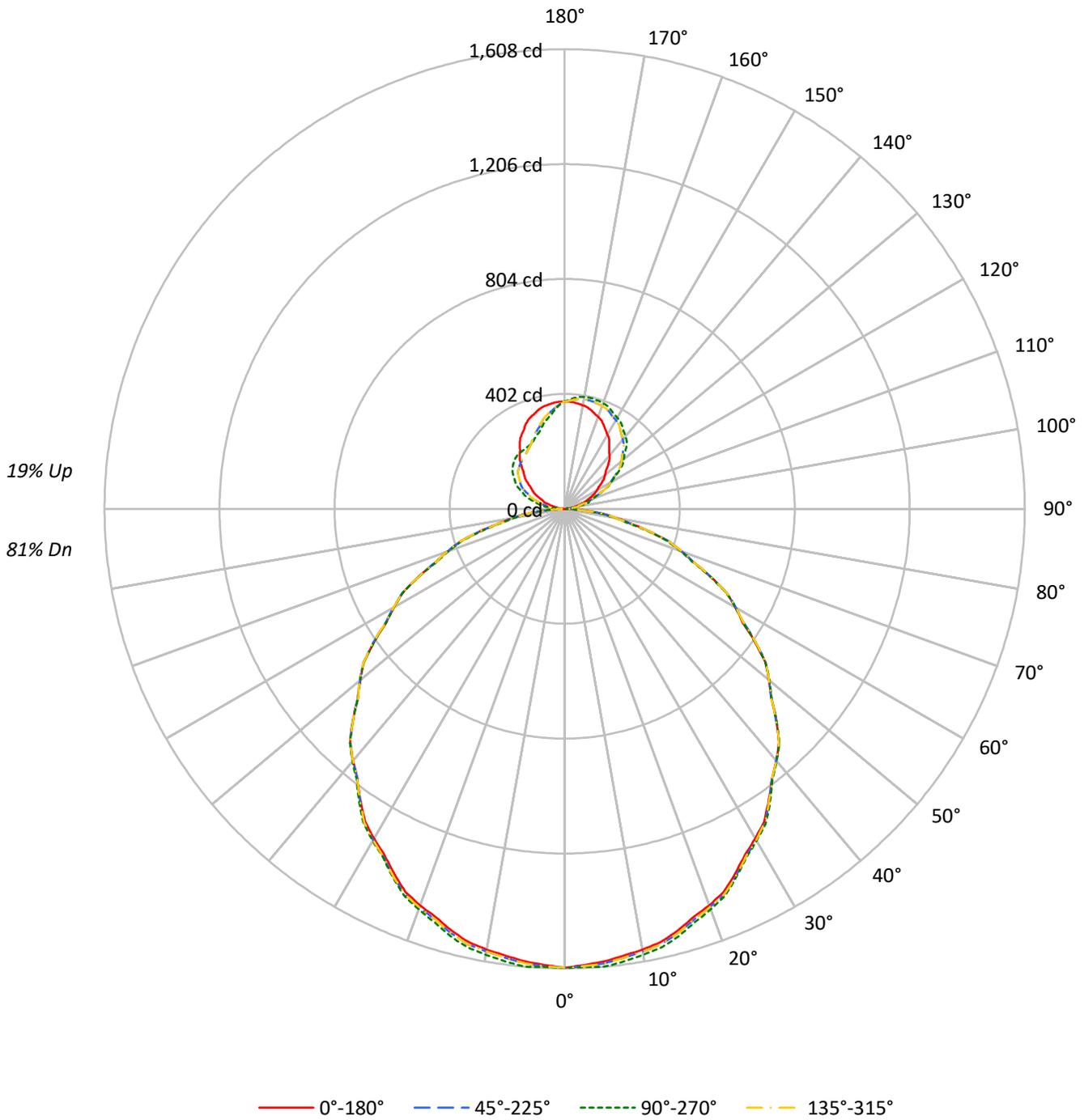
Lumens per Lamp: N/A
Luminaire Lumens: 5614.5 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	81
1	104	100	96	92	100	96	92	88	88	85	82	81	78	76	74	72	71	67
2	95	87	80	75	90	83	77	72	77	72	68	71	67	63	65	62	59	56
3	86	76	68	62	82	73	66	60	67	62	57	62	57	53	57	53	50	47
4	79	67	59	52	75	65	57	51	60	53	48	55	50	46	51	47	43	40
5	73	60	51	45	69	58	50	44	54	47	42	50	44	39	46	41	37	35
6	67	54	45	39	64	52	44	38	48	41	36	45	39	35	42	37	33	30
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	38	33	29	27
8	58	44	36	31	55	43	35	30	40	33	29	37	32	27	35	30	26	24
9	54	41	33	27	51	39	32	27	37	30	26	34	29	25	32	27	23	21
10	50	38	30	25	48	36	29	24	34	28	23	32	26	22	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25922	25922	25922	25922
5°	25765	26058	25765	26058
10°	25672	25969	25672	25969
15°	25532	25853	25532	25853
20°	25371	25623	25371	25623
25°	25097	25318	25097	25318
30°	24831	24999	24831	24999
35°	24513	24669	24513	24669
40°	24236	24308	24236	24308
45°	23879	23879	23879	23879
50°	23402	23458	23402	23458
55°	22851	22882	22851	22882
60°	22236	22236	22236	22236
65°	21512	21425	21512	21425
70°	20497	20280	20497	20280
75°	19114	18690	19114	18690
80°	17034	16188	17034	16188
85°	13616	11523	13616	11523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 24041 cd/sqm



TEST NUMBER: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	2.7
10°-20°	434.1	7.7
20°-30°	653.4	11.6
30°-40°	781.3	13.9
40°-50°	806.8	14.4
50°-60°	727.7	13.0
60°-70°	557.5	9.9
70°-80°	322.2	5.7
80°-90°	85.2	1.5
90°-100°	29.8	0.5
100°-110°	87.0	1.5
110°-120°	142.0	2.5
120°-130°	180.2	3.2
130°-140°	192.8	3.4
140°-150°	180.0	3.2
150°-160°	148.1	2.6
160°-170°	99.3	1.8
170°-180°	35.3	0.6
0°-30°	1239.3	22.1
0°-40°	2020.7	36.0
0°-60°	3555.2	63.3
0°-90°	4520.1	80.5
90°-120°	258.8	4.6
90°-150°	811.7	14.5
90°-180°	1094.0	19.5
0°-180°	5614.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1590	1608	1590	1608	1590	151
15°	1528	1547	1528	1547	1528	431
25°	1409	1421	1409	1421	1409	649
35°	1244	1252	1244	1252	1244	778
45°	1046	1046	1046	1046	1046	806
55°	812	813	812	813	812	725
65°	563	561	563	561	563	557
75°	306	300	306	300	306	324
85°	74	62	74	62	74	85
90°	1	8	1	16	1	4
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1597.4	1605.0	1612.6	1609.4	1602.6	1600.0	1601.6	1603.0	1603.8	1604.6	1603.8
5°	1589.7	1599.7	1609.8	1606.3	1598.2	1594.7	1595.7	1597.7	1602.8	1607.8	1602.8
7.5°	1576.8	1586.8	1596.9	1593.7	1586.0	1582.8	1584.0	1586.2	1591.5	1596.7	1591.5
10°	1565.9	1576.0	1586.0	1582.5	1574.5	1571.5	1573.5	1576.0	1580.0	1584.0	1580.0
12.5°	1552.4	1562.4	1572.5	1569.6	1562.3	1559.3	1560.5	1562.5	1566.9	1571.4	1566.9
15°	1527.5	1537.6	1547.6	1544.8	1537.8	1535.0	1536.5	1538.7	1542.7	1546.7	1542.7
17.5°	1497.4	1506.9	1516.3	1513.8	1507.2	1504.8	1506.5	1508.7	1512.2	1515.7	1512.2
20°	1476.6	1485.7	1494.7	1492.1	1485.5	1482.5	1483.0	1484.3	1487.8	1491.3	1487.8
22.5°	1451.3	1460.3	1469.4	1467.0	1460.9	1457.3	1456.2	1456.4	1460.8	1465.1	1460.8
25°	1408.8	1417.8	1426.9	1425.0	1419.5	1415.9	1414.4	1414.2	1417.7	1421.2	1417.7
27.5°	1364.5	1372.0	1379.5	1378.0	1373.3	1370.5	1369.5	1369.4	1371.9	1374.4	1371.9
30°	1331.9	1339.4	1347.0	1345.1	1340.1	1337.0	1336.0	1335.9	1338.4	1340.9	1338.4
32.5°	1297.5	1304.7	1311.8	1309.2	1303.4	1300.4	1300.2	1300.7	1303.7	1306.6	1303.7
35°	1243.7	1249.7	1255.8	1253.1	1247.6	1245.1	1245.6	1246.6	1249.1	1251.6	1249.1
37.5°	1189.7	1194.3	1198.9	1196.2	1191.1	1188.5	1188.4	1188.8	1190.9	1193.1	1190.9
40°	1149.9	1154.9	1159.9	1157.0	1151.5	1148.5	1148.0	1148.2	1150.7	1153.3	1150.7
42.5°	1109.2	1113.0	1116.8	1114.2	1109.5	1107.3	1107.6	1108.1	1109.4	1110.7	1109.4
45°	1045.8	1049.4	1052.9	1050.4	1045.8	1043.6	1043.6	1043.8	1044.8	1045.8	1044.8
47.5°	979.6	982.3	985.0	983.1	979.5	977.5	976.9	976.8	978.4	980.0	978.4
50°	931.7	935.2	938.7	936.9	933.4	931.1	930.1	929.9	931.9	933.9	931.9
52.5°	884.6	888.5	892.5	890.8	887.3	884.8	883.4	882.8	884.4	886.0	884.4
55°	811.8	816.3	820.8	819.7	816.7	814.2	812.2	810.9	811.9	812.9	811.9
57.5°	737.4	741.8	746.3	745.4	742.8	740.3	737.9	736.4	737.8	739.2	737.8
60°	688.6	692.6	696.6	695.3	692.3	689.8	687.8	686.6	687.6	688.6	687.6
62.5°	638.8	642.8	646.9	645.3	641.9	639.2	637.2	635.9	636.9	637.9	636.9
65°	563.1	566.6	570.1	568.7	565.7	563.2	561.2	559.8	560.3	560.8	560.3
67.5°	486.6	489.6	492.7	491.2	488.3	485.4	482.5	480.5	481.3	482.1	481.3
70°	434.2	437.2	440.2	439.1	436.6	434.0	431.5	429.6	429.6	429.6	429.6
72.5°	383.5	386.1	388.7	387.2	384.3	381.8	379.7	378.1	378.1	378.1	378.1
75°	306.4	307.9	309.4	308.7	307.2	305.1	302.6	300.6	300.1	299.6	300.1
77.5°	232.0	232.0	232.0	230.6	228.7	226.8	224.8	223.3	222.7	222.1	222.7
80°	183.2	183.2	183.2	182.0	180.5	179.0	177.5	176.1	175.1	174.1	175.1
82.5°	137.9	137.1	136.3	135.0	133.5	131.6	129.3	127.8	128.8	129.8	128.8
85°	73.5	72.5	71.5	70.1	68.6	66.8	64.8	63.2	62.7	62.2	62.7
87.5°	22.8	22.3	21.9	21.1	20.1	18.8	17.2	16.0	15.6	15.2	15.6
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1603.0	1601.6	1600.0	1602.6	1609.4	1612.6	1605.0	1597.4	1605.0	1612.6	1609.4
5°	1597.7	1595.7	1594.7	1598.2	1606.3	1609.8	1599.7	1589.7	1599.7	1609.8	1606.3
7.5°	1586.2	1584.0	1582.8	1586.0	1593.7	1596.9	1586.8	1576.8	1586.8	1596.9	1593.7
10°	1576.0	1573.5	1571.5	1574.5	1582.5	1586.0	1576.0	1565.9	1576.0	1586.0	1582.5
12.5°	1562.5	1560.5	1559.3	1562.3	1569.6	1572.5	1562.4	1552.4	1562.4	1572.5	1569.6
15°	1538.7	1536.5	1535.0	1537.8	1544.8	1547.6	1537.6	1527.5	1537.6	1547.6	1544.8
17.5°	1508.7	1506.5	1504.8	1507.2	1513.8	1516.3	1506.9	1497.4	1506.9	1516.3	1513.8
20°	1484.3	1483.0	1482.5	1485.5	1492.1	1494.7	1485.7	1476.6	1485.7	1494.7	1492.1
22.5°	1456.4	1456.2	1457.3	1460.9	1467.0	1469.4	1460.3	1451.3	1460.3	1469.4	1467.0
25°	1414.2	1414.4	1415.9	1419.5	1425.0	1426.9	1417.8	1408.8	1417.8	1426.9	1425.0
27.5°	1369.4	1369.5	1370.5	1373.3	1378.0	1379.5	1372.0	1364.5	1372.0	1379.5	1378.0
30°	1335.9	1336.0	1337.0	1340.1	1345.1	1347.0	1339.4	1331.9	1339.4	1347.0	1345.1
32.5°	1300.7	1300.2	1300.4	1303.4	1309.2	1311.8	1304.7	1297.5	1304.7	1311.8	1309.2
35°	1246.6	1245.6	1245.1	1247.6	1253.1	1255.8	1249.7	1243.7	1249.7	1255.8	1253.1
37.5°	1188.8	1188.4	1188.5	1191.1	1196.2	1198.9	1194.3	1189.7	1194.3	1198.9	1196.2
40°	1148.2	1148.0	1148.5	1151.5	1157.0	1159.9	1154.9	1149.9	1154.9	1159.9	1157.0
42.5°	1108.1	1107.6	1107.3	1109.5	1114.2	1116.8	1113.0	1109.2	1113.0	1116.8	1114.2
45°	1043.8	1043.6	1043.6	1045.8	1050.4	1052.9	1049.4	1045.8	1049.4	1052.9	1050.4
47.5°	976.8	976.9	977.5	979.5	983.1	985.0	982.3	979.6	982.3	985.0	983.1
50°	929.9	930.1	931.1	933.4	936.9	938.7	935.2	931.7	935.2	938.7	936.9
52.5°	882.8	883.4	884.8	887.3	890.8	892.5	888.5	884.6	888.5	892.5	890.8
55°	810.9	812.2	814.2	816.7	819.7	820.8	816.3	811.8	816.3	820.8	819.7
57.5°	736.4	737.9	740.3	742.8	745.4	746.3	741.8	737.4	741.8	746.3	745.4
60°	686.6	687.8	689.8	692.3	695.3	696.6	692.6	688.6	692.6	696.6	695.3
62.5°	635.9	637.2	639.2	641.9	645.3	646.9	642.8	638.8	642.8	646.9	645.3
65°	559.8	561.2	563.2	565.7	568.7	570.1	566.6	563.1	566.6	570.1	568.7
67.5°	480.5	482.5	485.4	488.3	491.2	492.7	489.6	486.6	489.6	492.7	491.2
70°	429.6	431.5	434.0	436.6	439.1	440.2	437.2	434.2	437.2	440.2	439.1
72.5°	378.1	379.7	381.8	384.3	387.2	388.7	386.1	383.5	386.1	388.7	387.2
75°	300.6	302.6	305.1	307.2	308.7	309.4	307.9	306.4	307.9	309.4	308.7
77.5°	223.3	224.8	226.8	228.7	230.6	232.0	232.0	232.0	232.0	232.0	230.6
80°	176.1	177.5	179.0	180.5	182.0	183.2	183.2	183.2	183.2	183.2	182.0
82.5°	127.8	129.3	131.6	133.5	135.0	136.3	137.1	137.9	137.1	136.3	135.0
85°	63.2	64.8	66.8	68.6	70.1	71.5	72.5	73.5	72.5	71.5	70.1
87.5°	16.0	17.2	18.8	20.1	21.1	21.9	22.3	22.8	22.3	21.8	21.3
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1602.6	1600.0	1601.6	1603.0	1603.8	1604.6	1603.8	1603.0	1601.6	1600.0	1602.6
5°	1598.2	1594.7	1595.7	1597.7	1602.8	1607.8	1602.8	1597.7	1595.7	1594.7	1598.2
7.5°	1586.0	1582.8	1584.0	1586.2	1591.5	1596.7	1591.5	1586.2	1584.0	1582.8	1586.0
10°	1574.5	1571.5	1573.5	1576.0	1580.0	1584.0	1580.0	1576.0	1573.5	1571.5	1574.5
12.5°	1562.3	1559.3	1560.5	1562.5	1566.9	1571.4	1566.9	1562.5	1560.5	1559.3	1562.3
15°	1537.8	1535.0	1536.5	1538.7	1542.7	1546.7	1542.7	1538.7	1536.5	1535.0	1537.8
17.5°	1507.2	1504.8	1506.5	1508.7	1512.2	1515.7	1512.2	1508.7	1506.5	1504.8	1507.2
20°	1485.5	1482.5	1483.0	1484.3	1487.8	1491.3	1487.8	1484.3	1483.0	1482.5	1485.5
22.5°	1460.9	1457.3	1456.2	1456.4	1460.8	1465.1	1460.8	1456.4	1456.2	1457.3	1460.9
25°	1419.5	1415.9	1414.4	1414.2	1417.7	1421.2	1417.7	1414.2	1414.4	1415.9	1419.5
27.5°	1373.3	1370.5	1369.5	1369.4	1371.9	1374.4	1371.9	1369.4	1369.5	1370.5	1373.3
30°	1340.1	1337.0	1336.0	1335.9	1338.4	1340.9	1338.4	1335.9	1336.0	1337.0	1340.1
32.5°	1303.4	1300.4	1300.2	1300.7	1303.7	1306.6	1303.7	1300.7	1300.2	1300.4	1303.4
35°	1247.6	1245.1	1245.6	1246.6	1249.1	1251.6	1249.1	1246.6	1245.6	1245.1	1247.6
37.5°	1191.1	1188.5	1188.4	1188.8	1190.9	1193.1	1190.9	1188.8	1188.4	1188.5	1191.1
40°	1151.5	1148.5	1148.0	1148.2	1150.7	1153.3	1150.7	1148.2	1148.0	1148.5	1151.5
42.5°	1109.5	1107.3	1107.6	1108.1	1109.4	1110.7	1109.4	1108.1	1107.6	1107.3	1109.5
45°	1045.8	1043.6	1043.6	1043.8	1044.8	1045.8	1044.8	1043.8	1043.6	1043.6	1045.8
47.5°	979.5	977.5	976.9	976.8	978.4	980.0	978.4	976.8	976.9	977.5	979.5
50°	933.4	931.1	930.1	929.9	931.9	933.9	931.9	929.9	930.1	931.1	933.4
52.5°	887.3	884.8	883.4	882.8	884.4	886.0	884.4	882.8	883.4	884.8	887.3
55°	816.7	814.2	812.2	810.9	811.9	812.9	811.9	810.9	812.2	814.2	816.7
57.5°	742.8	740.3	737.9	736.4	737.8	739.2	737.8	736.4	737.9	740.3	742.8
60°	692.3	689.8	687.8	686.6	687.6	688.6	687.6	686.6	687.8	689.8	692.3
62.5°	641.9	639.2	637.2	635.9	636.9	637.9	636.9	635.9	637.2	639.2	641.9
65°	565.7	563.2	561.2	559.8	560.3	560.8	560.3	559.8	561.2	563.2	565.7
67.5°	488.3	485.4	482.5	480.5	481.3	482.1	481.3	480.5	482.5	485.4	488.3
70°	436.6	434.0	431.5	429.6	429.6	429.6	429.6	429.6	431.5	434.0	436.6
72.5°	384.3	381.8	379.7	378.1	378.1	378.1	378.1	378.1	379.7	381.8	384.3
75°	307.2	305.1	302.6	300.6	300.1	299.6	300.1	300.6	302.6	305.1	307.2
77.5°	228.7	226.8	224.8	223.3	222.7	222.1	222.7	223.3	224.8	226.8	228.7
80°	180.5	179.0	177.5	176.1	175.1	174.1	175.1	176.1	177.5	179.0	180.5
82.5°	133.5	131.6	129.3	127.8	128.8	129.8	128.8	127.8	129.3	131.6	133.5
85°	68.6	66.8	64.8	63.2	62.7	62.2	62.7	63.2	64.8	66.8	68.6
87.5°	20.4	19.6	18.5	17.5	17.4	16.8	17.4	17.5	18.5	19.6	20.4
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1605.5	1605.5	1605.5	1605.5
2.5°	1609.4	1612.6	1605.0	1597.4
5°	1606.3	1609.8	1599.7	1589.7
7.5°	1593.7	1596.9	1586.8	1576.8
10°	1582.5	1586.0	1576.0	1565.9
12.5°	1569.6	1572.5	1562.4	1552.4
15°	1544.8	1547.6	1537.6	1527.5
17.5°	1513.8	1516.3	1506.9	1497.4
20°	1492.1	1494.7	1485.7	1476.6
22.5°	1467.0	1469.4	1460.3	1451.3
25°	1425.0	1426.9	1417.8	1408.8
27.5°	1378.0	1379.5	1372.0	1364.5
30°	1345.1	1347.0	1339.4	1331.9
32.5°	1309.2	1311.8	1304.7	1297.5
35°	1253.1	1255.8	1249.7	1243.7
37.5°	1196.2	1198.9	1194.3	1189.7
40°	1157.0	1159.9	1154.9	1149.9
42.5°	1114.2	1116.8	1113.0	1109.2
45°	1050.4	1052.9	1049.4	1045.8
47.5°	983.1	985.0	982.3	979.6
50°	936.9	938.7	935.2	931.7
52.5°	890.8	892.5	888.5	884.6
55°	819.7	820.8	816.3	811.8
57.5°	745.4	746.3	741.8	737.4
60°	695.3	696.6	692.6	688.6
62.5°	645.3	646.9	642.8	638.8
65°	568.7	570.1	566.6	563.1
67.5°	491.2	492.7	489.6	486.6
70°	439.1	440.2	437.2	434.2
72.5°	387.2	388.7	386.1	383.5
75°	308.7	309.4	307.9	306.4
77.5°	230.6	232.0	232.0	232.0
80°	182.0	183.2	183.2	183.2
82.5°	135.0	136.3	137.1	137.9
85°	70.1	71.5	72.5	73.5
87.5°	21.3	21.8	22.3	22.8
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: P1427687

CATALOG NUMBER: SQ2W-F-K-025U-100D-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: P1427687
 CATALOG NUMBER: SQ2W-F-K-025U-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	21.61	22.85	22.25	23.51	24.27	21.52	22.77	22.16	23.43	24.18
	3H	23.43	24.55	24.08	25.21	26.01	23.32	24.45	23.98	25.11	25.90
	4H	24.14	25.20	24.81	25.88	26.68	24.02	25.08	24.70	25.76	26.56
	6H	24.60	25.58	25.28	26.26	27.08	24.45	25.43	25.14	26.12	26.94
	8H	24.77	25.70	25.46	26.41	27.23	24.61	25.55	25.31	26.25	27.08
	12H	24.86	25.76	25.57	26.46	27.31	24.69	25.58	25.39	26.28	27.13
4H	2H	22.23	23.29	22.91	23.97	24.77	22.17	23.23	22.84	23.90	24.71
	3H	24.29	25.18	24.98	25.89	26.71	24.20	25.08	24.88	25.80	26.62
	4H	25.12	25.92	25.82	26.64	27.50	25.01	25.81	25.71	26.53	27.38
	6H	25.69	26.39	26.42	27.14	28.00	25.55	26.25	26.28	27.00	27.86
	8H	25.92	26.57	26.65	27.31	28.19	25.76	26.41	26.49	27.15	28.03
	12H	26.05	26.64	26.80	27.40	28.28	25.86	26.45	26.61	27.22	28.10
8H	4H	25.39	26.05	26.12	26.79	27.66	25.30	25.95	26.03	26.69	27.57
	6H	26.10	26.64	26.86	27.43	28.30	25.97	26.51	26.73	27.30	28.17
	8H	26.41	26.89	27.18	27.68	28.57	26.25	26.74	27.03	27.52	28.41
	12H	26.61	27.04	27.38	27.81	28.76	26.42	26.85	27.19	27.62	28.57
12H	4H	25.41	26.00	26.16	26.76	27.64	25.31	25.90	26.06	26.67	27.55
	6H	26.15	26.64	26.93	27.42	28.31	26.03	26.51	26.80	27.30	28.19
	8H	26.51	26.93	27.28	27.71	28.66	26.36	26.78	27.13	27.56	28.51