

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1427509

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

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427509  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-BBM-K-050U-050D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - BLACK DISCREET BAFFLE, MEDIUM 80-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

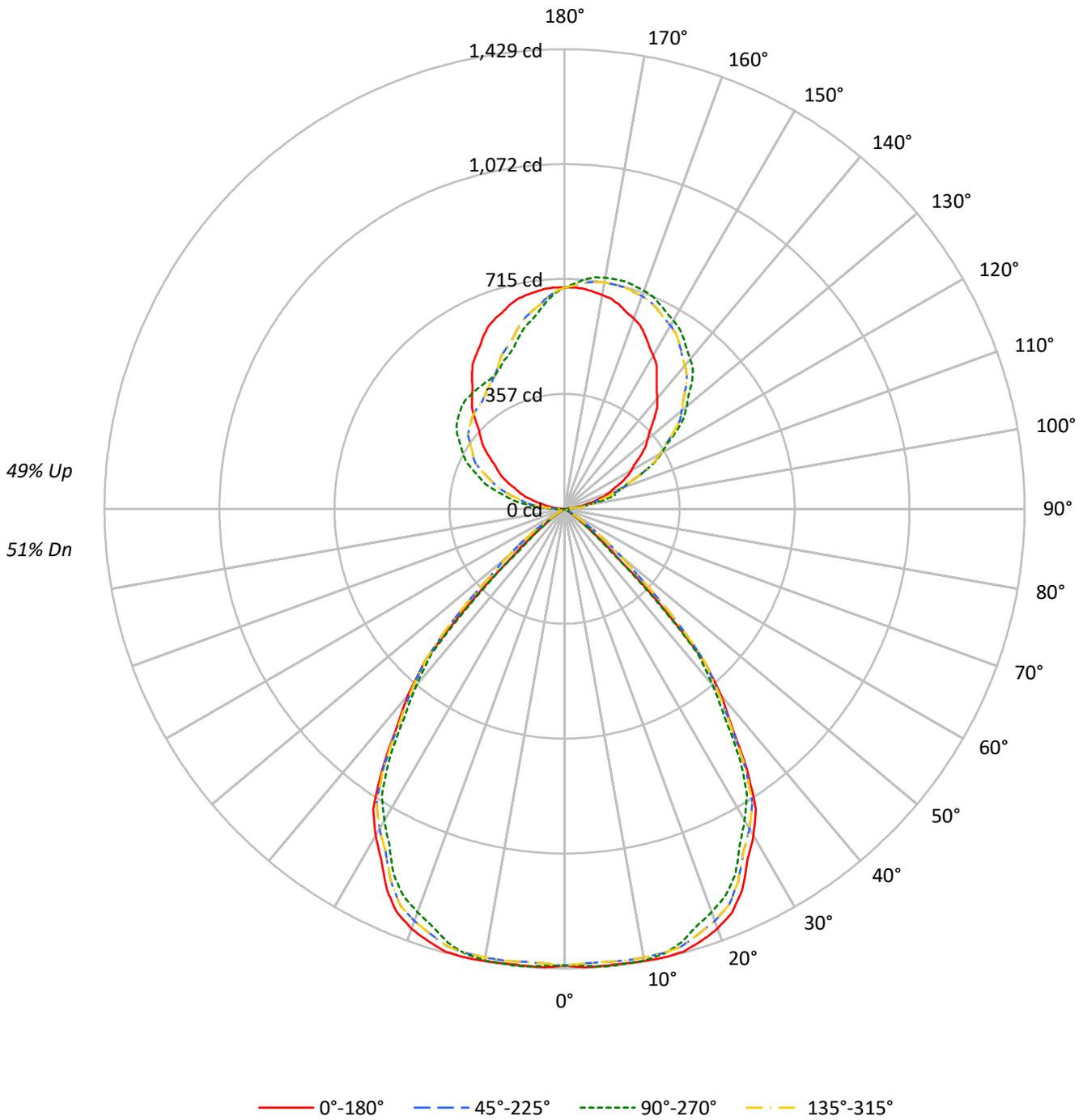
Lumens per Lamp: N/A  
Luminaire Lumens: 4136.8 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 33  
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: P1427509

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1427509

CATALOG NUMBER: SQ2W-BBM-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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	100	97	93	91	93	90	87	85	77	75	73	65	64	62	54	53	52	47				
2	93	87	82	78	86	81	77	73	70	67	64	60	57	56	50	49	47	43				
3	86	78	72	67	80	73	68	64	64	60	57	55	52	50	46	45	43	39				
4	80	71	64	59	74	66	61	56	58	54	50	50	47	45	43	41	39	36				
5	74	64	57	52	69	60	54	50	53	48	45	46	43	40	40	37	36	33				
6	69	59	52	46	64	55	49	44	49	44	40	43	39	36	37	34	32	30				
7	65	54	47	42	60	51	44	40	45	40	36	39	36	33	34	32	30	27				
8	60	49	42	38	56	47	40	36	41	37	33	37	33	30	32	29	27	25				
9	56	45	39	34	53	43	37	33	38	34	30	34	30	28	30	27	25	23				
10	53	42	35	31	50	40	34	30	36	31	28	32	28	25	28	25	23	21				

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

	0°	90°	180°	270°
0°	22936	22936	22936	22936
5°	23116	23152	23116	23152
10°	23407	23372	23407	23372
15°	23829	23354	23829	23354
20°	23860	22931	23860	22931
25°	23269	22357	23269	22357
30°	21874	20854	21874	20854
35°	19414	18685	19414	18685
40°	15921	15068	15921	15068
45°	9492	8910	9492	8910
50°	2964	2803	2964	2803
55°	1120	1120	1120	1120
60°	68	23	68	23
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 11113 cd/sqm



TEST NUMBER: P1427509

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	3.3
10°-20°	397.9	9.6
20°-30°	585.4	14.2
30°-40°	598.3	14.5
40°-50°	344.7	8.3
50°-60°	59.3	1.4
60°-70°	2.1	0.1
70°-80°	0.0	0.0
80°-90°	3.7	0.1
90°-100°	54.8	1.3
100°-110°	159.8	3.9
110°-120°	260.8	6.3
120°-130°	330.9	8.0
130°-140°	354.1	8.6
140°-150°	330.7	8.0
150°-160°	272.1	6.6
160°-170°	182.5	4.4
170°-180°	64.8	1.6
0°-30°	1119.1	27.1
0°-40°	1717.4	41.5
0°-60°	2121.4	51.3
0°-90°	2127.2	51.4
90°-120°	475.4	11.5
90°-150°	1491.1	36.0
90°-180°	2010.0	48.6
0°-180°	4136.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1421	1421	1421	1421	1421	
5°	1426	1428	1426	1428	1426	136
15°	1426	1397	1426	1397	1426	401
25°	1306	1255	1306	1255	1306	596
35°	985	948	985	948	985	608
45°	416	390	416	390	416	322
55°	40	40	40	40	40	42
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	15	2	30	2	2
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: P1427509

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

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1426.9	1425.1	1423.4	1419.1	1414.1	1414.4	1420.3	1424.3	1423.0	1421.8	1423.0
5°	1426.3	1424.7	1423.2	1418.7	1413.4	1414.9	1423.5	1429.7	1429.1	1428.5	1429.1
7.5°	1425.5	1424.4	1423.3	1420.2	1416.4	1418.0	1425.0	1429.9	1428.3	1426.7	1428.3
10°	1427.7	1427.4	1427.1	1422.3	1416.0	1416.4	1423.7	1428.8	1427.2	1425.6	1427.2
12.5°	1428.9	1430.8	1432.8	1425.9	1416.0	1414.0	1419.7	1423.3	1420.5	1417.6	1420.5
15°	1425.6	1431.0	1436.3	1426.6	1411.7	1404.8	1405.7	1405.4	1401.3	1397.2	1401.3
17.5°	1409.7	1417.3	1424.9	1411.9	1392.1	1380.5	1377.0	1373.0	1367.2	1361.4	1367.2
20°	1388.7	1397.5	1406.3	1392.2	1370.4	1356.5	1350.5	1344.8	1339.7	1334.6	1339.7
22.5°	1359.1	1367.2	1375.3	1361.7	1340.9	1326.8	1319.2	1312.6	1308.6	1304.5	1308.6
25°	1306.2	1311.6	1317.0	1303.1	1282.9	1270.0	1264.3	1259.5	1257.3	1255.0	1257.3
27.5°	1231.3	1232.8	1234.3	1223.4	1208.2	1197.1	1190.0	1184.0	1181.1	1178.3	1181.1
30°	1173.3	1173.3	1173.3	1164.8	1153.4	1143.9	1136.4	1129.3	1124.0	1118.6	1124.0
32.5°	1105.7	1104.9	1104.1	1097.9	1089.8	1081.6	1073.3	1065.7	1060.3	1054.9	1060.3
35°	985.0	988.5	991.9	987.6	980.6	973.1	964.9	957.5	952.8	948.0	952.8
37.5°	854.4	855.7	857.0	853.4	848.2	841.1	832.3	824.7	820.7	816.7	820.7
40°	755.4	755.8	756.1	751.7	745.7	739.5	733.2	726.9	720.9	714.9	720.9
42.5°	640.0	646.4	652.8	650.1	644.3	636.4	626.3	618.1	615.6	613.2	615.6
45°	415.7	443.9	472.0	482.3	486.7	483.3	471.9	455.2	422.7	390.2	422.7
47.5°	208.9	243.9	278.9	303.2	323.8	318.0	285.5	252.6	218.2	183.8	218.2
50°	118.0	138.8	159.7	192.1	228.4	222.4	174.1	134.9	123.3	111.6	123.3
52.5°	78.7	88.0	97.2	123.3	155.1	153.0	117.1	88.5	81.8	75.2	81.8
55°	39.8	42.3	44.9	56.4	70.9	70.6	55.4	43.6	41.7	39.8	41.7
57.5°	13.5	16.9	20.3	25.4	31.1	31.3	25.9	21.1	18.0	14.9	18.0
60°	2.1	5.3	8.4	12.6	17.0	16.5	11.1	6.4	3.6	0.7	3.6
62.5°	0.4	1.3	2.2	5.5	9.7	9.6	5.3	1.8	1.0	0.1	1.0
65°	0.0	0.0	0.0	0.2	0.6	0.6	0.2	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	1.0	1.7	2.2	2.6	2.8	2.8	2.9	3.1	3.1	3.1
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: P1427509

CATALOG NUMBER: SQ2W-BBM-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: P1427509

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

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1424.3	1420.3	1414.4	1414.1	1419.1	1423.4	1425.1	1426.9	1425.1	1423.4	1419.1
5°	1429.7	1423.5	1414.9	1413.4	1418.7	1423.2	1424.7	1426.3	1424.7	1423.2	1418.7
7.5°	1429.9	1425.0	1418.0	1416.4	1420.2	1423.3	1424.4	1425.5	1424.4	1423.3	1420.2
10°	1428.8	1423.7	1416.4	1416.0	1422.3	1427.1	1427.4	1427.7	1427.4	1427.1	1422.3
12.5°	1423.3	1419.7	1414.0	1416.0	1425.9	1432.8	1430.8	1428.9	1430.8	1432.8	1425.9
15°	1405.4	1405.7	1404.8	1411.7	1426.6	1436.3	1431.0	1425.6	1431.0	1436.3	1426.6
17.5°	1373.0	1377.0	1380.5	1392.1	1411.9	1424.9	1417.3	1409.7	1417.3	1424.9	1411.9
20°	1344.8	1350.5	1356.5	1370.4	1392.2	1406.3	1397.5	1388.7	1397.5	1406.3	1392.2
22.5°	1312.6	1319.2	1326.8	1340.9	1361.7	1375.3	1367.2	1359.1	1367.2	1375.3	1361.7
25°	1259.5	1264.3	1270.0	1282.9	1303.1	1317.0	1311.6	1306.2	1311.6	1317.0	1303.1
27.5°	1184.0	1190.0	1197.1	1208.2	1223.4	1234.3	1232.8	1231.3	1232.8	1234.3	1223.4
30°	1129.3	1136.4	1143.9	1153.4	1164.8	1173.3	1173.3	1173.3	1173.3	1173.3	1164.8
32.5°	1065.7	1073.3	1081.6	1089.8	1097.9	1104.1	1104.9	1105.7	1104.9	1104.1	1097.9
35°	957.5	964.9	973.1	980.6	987.6	991.9	988.5	985.0	988.5	991.9	987.6
37.5°	824.7	832.3	841.1	848.2	853.4	857.0	855.7	854.4	855.7	857.0	853.4
40°	726.9	733.2	739.5	745.7	751.7	756.1	755.8	755.4	755.8	756.1	751.7
42.5°	618.1	626.3	636.4	644.3	650.1	652.8	646.4	640.0	646.4	652.8	650.1
45°	455.2	471.9	483.3	486.7	482.3	472.0	443.9	415.7	443.9	472.0	482.3
47.5°	252.6	285.5	318.0	323.8	303.2	278.9	243.9	208.9	243.9	278.9	303.2
50°	134.9	174.1	222.4	228.4	192.1	159.7	138.8	118.0	138.8	159.7	192.1
52.5°	88.5	117.1	153.0	155.1	123.3	97.2	88.0	78.7	88.0	97.2	123.3
55°	43.6	55.4	70.6	70.9	56.4	44.9	42.3	39.8	42.3	44.9	56.4
57.5°	21.1	25.9	31.3	31.1	25.4	20.3	16.9	13.5	16.9	20.3	25.4
60°	6.4	11.1	16.5	17.0	12.6	8.4	5.3	2.1	5.3	8.4	12.6
62.5°	1.8	5.3	9.6	9.7	5.5	2.2	1.3	0.4	1.3	2.2	5.5
65°	0.0	0.2	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	2.8	2.8	2.6	2.2	1.7	1.0	0.4	1.0	1.5	2.5
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: P1427509

CATALOG NUMBER: SQ2W-BBM-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: P1427509

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1414.1	1414.4	1420.3	1424.3	1423.0	1421.8	1423.0	1424.3	1420.3	1414.4	1414.1
5°	1413.4	1414.9	1423.5	1429.7	1429.1	1428.5	1429.1	1429.7	1423.5	1414.9	1413.4
7.5°	1416.4	1418.0	1425.0	1429.9	1428.3	1426.7	1428.3	1429.9	1425.0	1418.0	1416.4
10°	1416.0	1416.4	1423.7	1428.8	1427.2	1425.6	1427.2	1428.8	1423.7	1416.4	1416.0
12.5°	1416.0	1414.0	1419.7	1423.3	1420.5	1417.6	1420.5	1423.3	1419.7	1414.0	1416.0
15°	1411.7	1404.8	1405.7	1405.4	1401.3	1397.2	1401.3	1405.4	1405.7	1404.8	1411.7
17.5°	1392.1	1380.5	1377.0	1373.0	1367.2	1361.4	1367.2	1373.0	1377.0	1380.5	1392.1
20°	1370.4	1356.5	1350.5	1344.8	1339.7	1334.6	1339.7	1344.8	1350.5	1356.5	1370.4
22.5°	1340.9	1326.8	1319.2	1312.6	1308.6	1304.5	1308.6	1312.6	1319.2	1326.8	1340.9
25°	1282.9	1270.0	1264.3	1259.5	1257.3	1255.0	1257.3	1259.5	1264.3	1270.0	1282.9
27.5°	1208.2	1197.1	1190.0	1184.0	1181.1	1178.3	1181.1	1184.0	1190.0	1197.1	1208.2
30°	1153.4	1143.9	1136.4	1129.3	1124.0	1118.6	1124.0	1129.3	1136.4	1143.9	1153.4
32.5°	1089.8	1081.6	1073.3	1065.7	1060.3	1054.9	1060.3	1065.7	1073.3	1081.6	1089.8
35°	980.6	973.1	964.9	957.5	952.8	948.0	952.8	957.5	964.9	973.1	980.6
37.5°	848.2	841.1	832.3	824.7	820.7	816.7	820.7	824.7	832.3	841.1	848.2
40°	745.7	739.5	733.2	726.9	720.9	714.9	720.9	726.9	733.2	739.5	745.7
42.5°	644.3	636.4	626.3	618.1	615.6	613.2	615.6	618.1	626.3	636.4	644.3
45°	486.7	483.3	471.9	455.2	422.7	390.2	422.7	455.2	471.9	483.3	486.7
47.5°	323.8	318.0	285.5	252.6	218.2	183.8	218.2	252.6	285.5	318.0	323.8
50°	228.4	222.4	174.1	134.9	123.3	111.6	123.3	134.9	174.1	222.4	228.4
52.5°	155.1	153.0	117.1	88.5	81.8	75.2	81.8	88.5	117.1	153.0	155.1
55°	70.9	70.6	55.4	43.6	41.7	39.8	41.7	43.6	55.4	70.6	70.9
57.5°	31.1	31.3	25.9	21.1	18.0	14.9	18.0	21.1	25.9	31.3	31.1
60°	17.0	16.5	11.1	6.4	3.6	0.7	3.6	6.4	11.1	16.5	17.0
62.5°	9.7	9.6	5.3	1.8	1.0	0.1	1.0	1.8	5.3	9.6	9.7
65°	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	4.2	5.1	5.7	6.3	6.0	6.3	5.7	5.1	4.2	3.2
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: P1427509

CATALOG NUMBER: SQ2W-BBM-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: P1427509

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1420.6	1420.6	1420.6	1420.6
2.5°	1419.1	1423.4	1425.1	1426.9
5°	1418.7	1423.2	1424.7	1426.3
7.5°	1420.2	1423.3	1424.4	1425.5
10°	1422.3	1427.1	1427.4	1427.7
12.5°	1425.9	1432.8	1430.8	1428.9
15°	1426.6	1436.3	1431.0	1425.6
17.5°	1411.9	1424.9	1417.3	1409.7
20°	1392.2	1406.3	1397.5	1388.7
22.5°	1361.7	1375.3	1367.2	1359.1
25°	1303.1	1317.0	1311.6	1306.2
27.5°	1223.4	1234.3	1232.8	1231.3
30°	1164.8	1173.3	1173.3	1173.3
32.5°	1097.9	1104.1	1104.9	1105.7
35°	987.6	991.9	988.5	985.0
37.5°	853.4	857.0	855.7	854.4
40°	751.7	756.1	755.8	755.4
42.5°	650.1	652.8	646.4	640.0
45°	482.3	472.0	443.9	415.7
47.5°	303.2	278.9	243.9	208.9
50°	192.1	159.7	138.8	118.0
52.5°	123.3	97.2	88.0	78.7
55°	56.4	44.9	42.3	39.8
57.5°	25.4	20.3	16.9	13.5
60°	12.6	8.4	5.3	2.1
62.5°	5.5	2.2	1.3	0.4
65°	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	2.5	1.5	1.0	0.4
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: P1427509

CATALOG NUMBER: SQ2W-BBM-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: P1427509  
 CATALOG NUMBER: SQ2W-BBM-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00