

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: P1427497

Luminaire Tested: SQ2W-BBM-K-025U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1427497  
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-025U-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 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

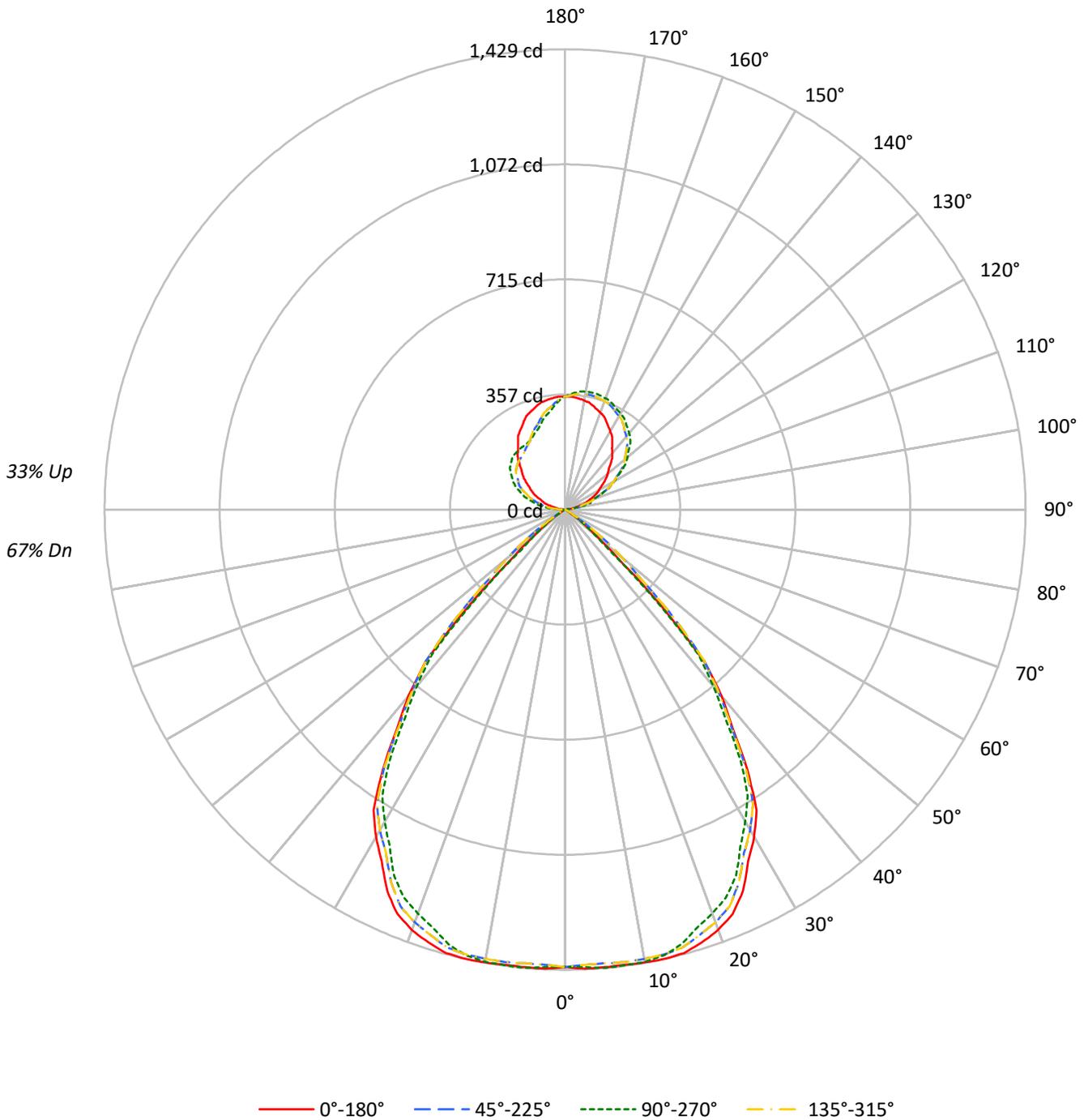
Lumens per Lamp: N/A  
Luminaire Lumens: 3148.9 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 25.6  
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

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CATALOG NUMBER: SQ2W-BBM-K-025U-050D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	104	101	98	95	98	96	93	91	86	84	82	76	75	74	68	67	66	62				
2	97	91	87	83	92	87	83	79	78	75	72	71	68	66	63	62	60	57				
3	91	83	77	72	86	79	74	70	72	68	65	65	62	59	59	57	55	52				
4	85	76	69	64	80	72	66	62	66	61	58	60	57	54	55	52	50	47				
5	79	69	62	57	75	66	60	55	61	56	52	55	52	49	51	48	45	43				
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39				
7	69	58	51	46	66	56	50	45	52	46	43	48	43	40	44	40	38	36				
8	65	54	47	42	61	52	45	41	48	43	39	44	40	37	41	37	35	33				
9	61	50	43	38	58	48	42	37	44	39	36	41	37	34	38	35	32	30				
10	57	46	40	35	54	44	38	34	41	36	33	39	34	31	36	32	30	28				

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	4.3
10°-20°	397.9	12.6
20°-30°	585.4	18.6
30°-40°	598.3	19.0
40°-50°	344.7	10.9
50°-60°	59.3	1.9
60°-70°	2.1	0.1
70°-80°	0.0	0.0
80°-90°	1.9	0.1
90°-100°	27.9	0.9
100°-110°	81.4	2.6
110°-120°	132.8	4.2
120°-130°	168.5	5.4
130°-140°	180.3	5.7
140°-150°	168.4	5.3
150°-160°	138.6	4.4
160°-170°	92.9	3.0
170°-180°	33.0	1.0
0°-30°	1119.1	35.5
0°-40°	1717.4	54.5
0°-60°	2121.4	67.4
0°-90°	2125.4	67.5
90°-120°	242.1	7.7
90°-150°	759.4	24.1
90°-180°	1024.0	32.5
0°-180°	3148.9	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°	1	8	1	15	1	1
95°	11	8	11	48	11	13
105°	52	83	52	114	52	55
115°	99	137	99	169	99	98
125°	147	218	147	208	147	131
135°	199	285	199	230	199	154
145°	255	329	255	235	255	159
155°	302	357	302	244	302	139
165°	334	372	334	280	334	94
175°	350	364	350	329	350	33
180°	351	351	351	351	351	



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**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°	0.2	0.5	0.9	1.1	1.3	1.4	1.4	1.5	1.6	1.6	1.6
90°	1.1	2.5	4.3	5.7	6.7	7.1	7.1	7.4	7.8	7.8	7.8
92.5°	3.9	6.2	6.2	6.2	7.6	8.2	8.8	8.9	9.2	9.2	9.2
95°	11.0	12.0	18.1	17.7	12.0	9.6	8.1	8.1	8.1	8.1	8.1
97.5°	21.0	22.5	23.5	31.5	33.3	32.2	26.2	22.0	19.7	18.6	19.7
100°	29.8	30.5	32.6	32.9	41.8	50.3	46.0	40.7	39.0	37.9	39.0
102.5°	38.5	39.0	42.2	43.7	45.8	50.6	65.3	63.7	62.5	62.3	62.5
105°	51.7	52.1	58.1	60.9	62.3	62.3	62.0	69.1	80.4	82.9	80.4
107.5°	65.8	67.4	74.5	82.1	83.7	84.2	82.3	81.3	80.8	81.1	80.8
110°	75.4	77.9	86.4	96.0	98.5	99.2	98.5	97.4	96.7	96.7	96.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	84.8	88.4	98.0	109.0	113.2	115.3	113.8	113.0	112.3	112.9	112.3
115°	99.2	104.5	117.2	128.6	137.1	138.1	137.8	137.8	137.4	137.4	137.4
117.5°	112.5	121.0	135.3	148.5	158.3	161.2	162.6	162.2	161.7	162.4	161.7
120°	121.9	131.8	148.1	162.9	172.5	176.8	178.2	177.5	178.2	177.5	178.2
122.5°	131.8	144.0	160.0	175.4	186.7	191.5	193.2	193.3	193.5	193.1	193.5
125°	146.6	161.5	180.3	196.2	207.9	213.6	215.0	215.4	216.1	217.8	216.1
127.5°	161.7	178.5	199.1	214.5	226.5	233.4	235.6	236.3	237.8	238.6	237.8
130°	172.2	191.3	212.2	226.7	238.4	245.8	249.7	250.8	252.6	252.2	252.6
132.5°	183.2	203.2	224.4	239.5	250.3	258.3	261.6	264.7	265.3	265.8	265.3
135°	199.4	221.0	242.3	257.2	267.4	275.2	279.5	282.3	284.1	285.1	284.1
137.5°	216.5	239.3	259.7	273.0	283.3	290.0	294.9	297.8	299.7	300.5	299.7
140°	228.1	250.1	269.9	283.7	292.9	299.7	303.9	307.5	309.6	309.6	309.6
142.5°	239.2	260.9	280.1	293.9	302.0	308.2	312.7	315.4	317.8	317.8	317.8
145°	254.7	276.3	294.0	307.8	314.6	320.2	325.2	327.3	328.7	328.7	328.7
147.5°	270.9	290.0	306.2	319.4	325.1	331.8	335.7	337.4	339.1	338.4	339.1
150°	280.5	298.3	313.8	326.2	331.9	338.3	342.2	343.6	345.4	344.3	345.4
152.5°	289.9	306.8	320.9	332.5	337.3	343.7	348.1	349.5	350.8	350.0	350.8
155°	302.5	317.4	330.5	341.1	345.4	351.4	355.6	357.4	358.8	357.1	358.8
157.5°	313.8	326.6	338.0	347.8	352.3	357.5	361.4	363.6	365.1	364.3	365.1
160°	320.6	332.3	342.5	351.7	356.0	360.6	364.9	367.3	368.7	367.7	368.7
162.5°	326.2	336.8	346.5	354.9	358.5	362.6	367.7	369.9	371.3	370.0	371.3
165°	334.4	342.9	351.4	358.5	361.7	364.9	370.2	372.6	373.7	372.3	373.7
167.5°	340.6	347.1	353.9	360.0	362.4	365.5	370.8	372.9	374.2	372.4	374.2
170°	344.0	349.6	355.6	360.6	362.4	365.2	370.5	372.3	373.4	371.6	373.4
172.5°	346.8	351.0	355.9	360.3	361.2	363.5	368.5	370.3	371.1	369.6	371.1
175°	349.6	352.1	355.6	358.5	358.1	359.5	363.8	365.2	366.6	364.5	366.6
177.5°	351.0	352.1	353.2	354.9	353.8	353.8	356.9	357.8	358.0	356.9	358.0
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



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**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°	1.5	1.4	1.4	1.3	1.1	0.9	0.5	0.2	0.5	0.8	1.3
90°	7.4	7.1	7.1	6.7	5.7	4.3	2.5	1.1	2.5	3.9	6.4
92.5°	8.9	8.8	8.2	7.6	6.2	6.2	6.2	3.9	6.7	9.6	13.7
95°	8.1	8.1	9.6	12.0	17.7	18.1	12.0	11.0	15.6	22.0	27.6
97.5°	22.0	26.2	32.2	33.3	31.5	23.5	22.5	21.0	28.6	34.9	44.0
100°	40.7	46.0	50.3	41.8	32.9	32.6	30.5	29.8	37.9	43.9	52.8
102.5°	63.7	65.3	50.6	45.8	43.7	42.2	39.0	38.5	46.7	55.0	62.4
105°	69.1	62.0	62.3	62.3	60.9	58.1	52.1	51.7	60.9	70.5	79.7
107.5°	81.3	82.3	84.2	83.7	82.1	74.5	67.4	65.8	74.1	85.6	95.7
110°	97.4	98.5	99.2	98.5	96.0	86.4	77.9	75.4	82.9	94.9	105.9



TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	113.0	113.8	115.3	113.2	109.0	98.0	88.4	84.8	92.2	104.6	115.8
115°	137.8	137.8	138.1	137.1	128.6	117.2	104.5	99.2	105.6	116.9	129.3
117.5°	162.2	162.6	161.2	158.3	148.5	135.3	121.0	112.5	117.5	129.5	142.3
120°	177.5	178.2	176.8	172.5	162.9	148.1	131.8	121.9	125.7	137.4	150.2
122.5°	193.3	193.2	191.5	186.7	175.4	160.0	144.0	131.8	133.4	144.2	156.7
125°	215.4	215.0	213.6	207.9	196.2	180.3	161.5	146.6	144.5	153.7	166.5
127.5°	236.3	235.6	233.4	226.5	214.5	199.1	178.5	161.7	156.9	162.7	174.4
130°	250.8	249.7	245.8	238.4	226.7	212.2	191.3	172.2	165.4	169.0	179.2
132.5°	264.7	261.6	258.3	250.3	239.5	224.4	203.2	183.2	173.9	175.5	183.5
135°	282.3	279.5	275.2	267.4	257.2	242.3	221.0	199.4	186.7	185.3	189.9
137.5°	297.8	294.9	290.0	283.3	273.0	259.7	239.3	216.5	200.4	195.7	197.4
140°	307.5	303.9	299.7	292.9	283.7	269.9	250.1	228.1	210.1	203.3	202.3
142.5°	315.4	312.7	308.2	302.0	293.9	280.1	260.9	239.2	220.0	211.3	208.8
145°	327.3	325.2	320.2	314.6	307.8	294.0	276.3	254.7	235.6	224.2	218.9
147.5°	337.4	335.7	331.8	325.1	319.4	306.2	290.0	270.9	251.3	237.3	230.4
150°	343.6	342.2	338.3	331.9	326.2	313.8	298.3	280.5	261.8	246.9	238.0
152.5°	349.5	348.1	343.7	337.3	332.5	320.9	306.8	289.9	270.8	256.0	246.8
155°	357.4	355.6	351.4	345.4	341.1	330.5	317.4	302.5	286.2	270.6	260.4
157.5°	363.6	361.4	357.5	352.3	347.8	338.0	326.6	313.8	299.5	284.7	274.2
160°	367.3	364.9	360.6	356.0	351.7	342.5	332.3	320.6	307.5	294.0	282.7
162.5°	369.9	367.7	362.6	358.5	354.9	346.5	336.8	326.2	314.6	302.8	292.3
165°	372.6	370.2	364.9	361.7	358.5	351.4	342.9	334.4	324.5	314.9	306.4
167.5°	372.9	370.8	365.5	362.4	360.0	353.9	347.1	340.6	332.8	325.3	318.2
170°	372.3	370.5	365.2	362.4	360.6	355.6	349.6	344.0	337.9	331.6	325.9
172.5°	370.3	368.5	363.5	361.2	360.3	355.9	351.0	346.8	341.6	336.9	332.4
175°	365.2	363.8	359.5	358.1	358.5	355.6	352.1	349.6	346.4	343.6	341.1
177.5°	357.8	356.9	353.8	353.8	354.9	353.2	352.1	351.0	349.5	348.7	347.8
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-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°	1.6	2.1	2.6	2.9	3.2	3.0	3.2	2.9	2.6	2.1	1.6
90°	8.1	10.6	13.1	14.5	15.9	15.2	15.9	14.5	13.1	10.6	8.1
92.5°	16.4	20.5	23.6	26.1	27.3	27.1	27.3	26.1	23.6	20.5	16.4
95°	32.9	37.9	42.9	46.4	48.5	47.8	48.5	46.4	42.9	37.9	32.9
97.5°	50.8	57.5	63.0	66.3	68.4	69.9	68.4	66.3	63.0	57.5	50.8
100°	62.7	69.1	75.4	79.3	82.9	84.3	82.9	79.3	75.4	69.1	62.7
102.5°	72.3	80.7	87.6	91.8	94.8	96.2	94.8	91.8	87.6	80.7	72.3
105°	88.2	97.1	104.5	109.8	113.0	114.1	113.0	109.8	104.5	97.1	88.2
107.5°	104.1	113.2	120.1	126.0	129.9	132.1	129.9	126.0	120.1	113.2	104.1
110°	116.5	124.0	131.4	136.7	140.6	142.0	140.6	136.7	131.4	124.0	116.5



TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	127.0	135.3	142.8	148.1	152.5	154.5	152.5	148.1	142.8	135.3	127.0
115°	141.7	152.7	159.4	164.4	167.5	169.3	167.5	164.4	159.4	152.7	141.7
117.5°	153.9	165.4	172.7	176.5	178.0	179.3	178.0	176.5	172.7	165.4	153.9
120°	161.5	172.2	180.7	185.6	187.4	188.1	187.4	185.6	180.7	172.2	161.5
122.5°	168.6	178.7	186.9	193.0	195.9	196.6	195.9	193.0	186.9	178.7	168.6
125°	178.5	188.1	196.6	202.6	205.8	207.6	205.8	202.6	196.6	188.1	178.5
127.5°	187.2	197.5	205.3	210.8	213.9	215.3	213.9	210.8	205.3	197.5	187.2
130°	192.0	202.6	210.4	216.4	219.3	220.7	219.3	216.4	210.4	202.6	192.0
132.5°	195.7	206.9	214.9	220.4	223.5	224.9	223.5	220.4	214.9	206.9	195.7
135°	200.1	211.8	220.3	225.6	228.5	229.9	228.5	225.6	220.3	211.8	200.1
137.5°	204.0	214.7	223.5	229.1	231.7	232.6	231.7	229.1	223.5	214.7	204.0
140°	206.9	216.1	224.9	230.2	233.1	233.4	233.1	230.2	224.9	216.1	206.9
142.5°	210.6	217.8	225.5	230.8	233.6	234.3	233.6	230.8	225.5	217.8	210.6
145°	217.1	221.4	226.7	231.7	234.1	234.9	234.1	231.7	226.7	221.4	217.1
147.5°	225.4	226.8	229.5	232.8	235.2	235.7	235.2	232.8	229.5	226.8	225.4
150°	231.7	231.3	232.4	234.5	236.6	236.3	236.6	234.5	232.4	231.3	231.7
152.5°	238.7	236.7	236.6	237.6	238.6	238.5	238.6	237.6	236.6	236.7	238.7
155°	250.8	246.9	244.8	244.1	244.1	243.7	244.1	244.1	244.8	246.9	250.8
157.5°	264.0	258.6	255.4	253.7	253.2	252.4	253.2	253.7	255.4	258.6	264.0
160°	273.1	267.1	263.9	261.1	260.0	258.9	260.0	261.1	263.9	267.1	273.1
162.5°	281.6	275.9	272.4	269.8	268.8	267.2	268.8	269.8	272.4	275.9	281.6
165°	295.4	289.4	285.5	283.4	282.0	280.5	282.0	283.4	285.5	289.4	295.4
167.5°	309.2	302.6	300.1	297.7	296.3	293.8	296.3	297.7	300.1	302.6	309.2
170°	317.7	311.7	310.3	308.2	305.7	302.9	305.7	308.2	310.3	311.7	317.7
172.5°	325.1	321.1	319.7	317.5	316.7	314.5	316.7	317.5	319.7	321.1	325.1
175°	335.8	332.6	332.6	332.3	331.2	329.1	331.2	332.3	332.6	332.6	335.8
177.5°	344.7	343.0	344.2	344.2	343.9	341.9	343.9	344.2	344.2	343.0	344.7
180°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7



TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-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°	1.3	0.8	0.5	0.2
90°	6.4	3.9	2.5	1.1
92.5°	13.7	9.6	6.7	3.9
95°	27.6	22.0	15.6	11.0
97.5°	44.0	34.9	28.6	21.0
100°	52.8	43.9	37.9	29.8
102.5°	62.4	55.0	46.7	38.5
105°	79.7	70.5	60.9	51.7
107.5°	95.7	85.6	74.1	65.8
110°	105.9	94.9	82.9	75.4

TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-050D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	115.8	104.6	92.2	84.8
115°	129.3	116.9	105.6	99.2
117.5°	142.3	129.5	117.5	112.5
120°	150.2	137.4	125.7	121.9
122.5°	156.7	144.2	133.4	131.8
125°	166.5	153.7	144.5	146.6
127.5°	174.4	162.7	156.9	161.7
130°	179.2	169.0	165.4	172.2
132.5°	183.5	175.5	173.9	183.2
135°	189.9	185.3	186.7	199.4
137.5°	197.4	195.7	200.4	216.5
140°	202.3	203.3	210.1	228.1
142.5°	208.8	211.3	220.0	239.2
145°	218.9	224.2	235.6	254.7
147.5°	230.4	237.3	251.3	270.9
150°	238.0	246.9	261.8	280.5
152.5°	246.8	256.0	270.8	289.9
155°	260.4	270.6	286.2	302.5
157.5°	274.2	284.7	299.5	313.8
160°	282.7	294.0	307.5	320.6
162.5°	292.3	302.8	314.6	326.2
165°	306.4	314.9	324.5	334.4
167.5°	318.2	325.3	332.8	340.6
170°	325.9	331.6	337.9	344.0
172.5°	332.4	336.9	341.6	346.8
175°	341.1	343.6	346.4	349.6
177.5°	347.8	348.7	349.5	351.0
180°	350.7	350.7	350.7	350.7



TEST NUMBER: P1427497

CATALOG NUMBER: SQ2W-BBM-K-025U-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	0.70	0.00	0.00	0.00	0.00	0.93
	3H	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.69
	4H	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.56
	6H	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.42
	8H	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.34
	12H	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.27
4H	2H	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.57
	3H	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.30
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	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