

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: P1428246

Luminaire Tested: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428246  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

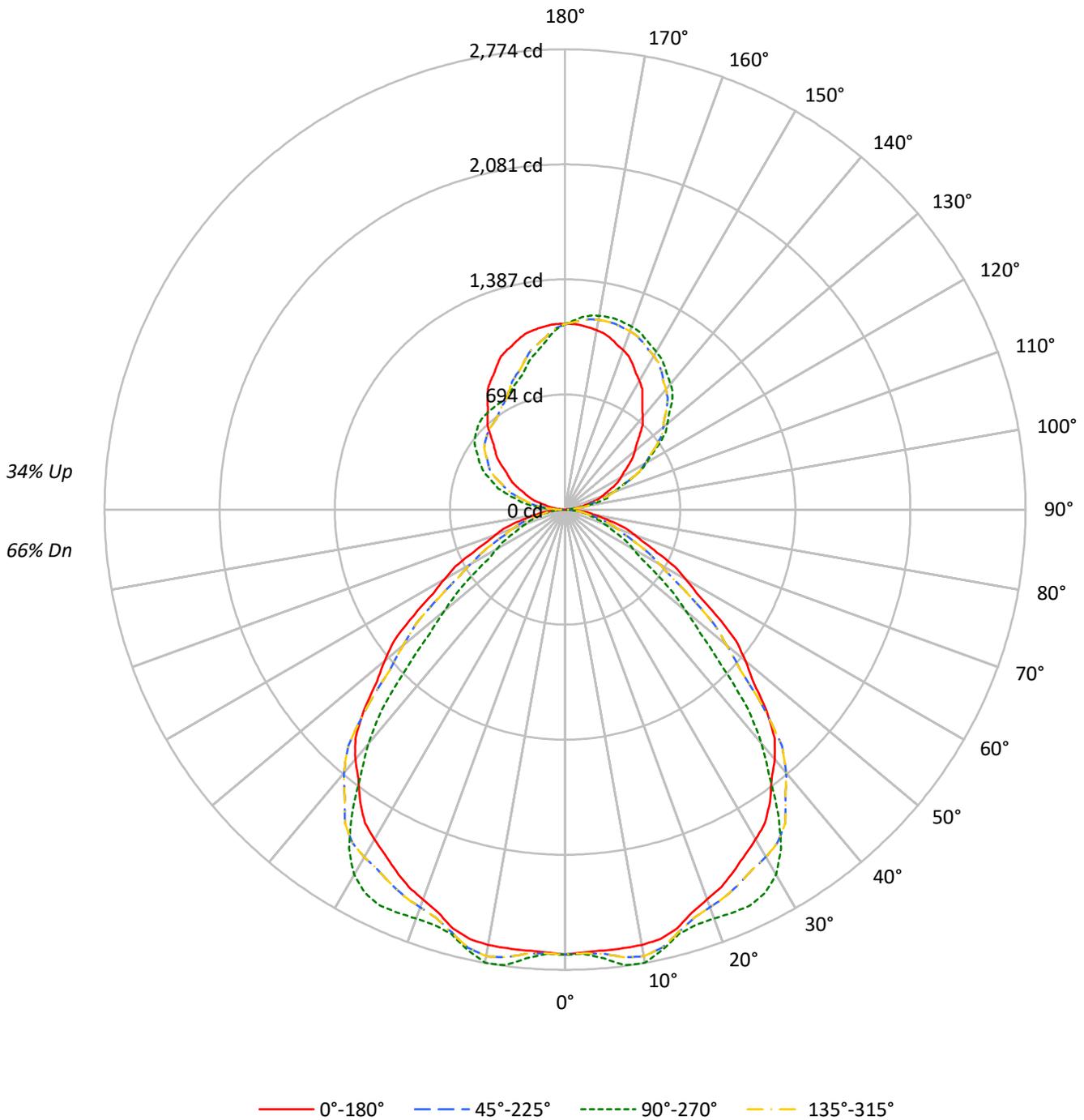
Lumens per Lamp: N/A  
Luminaire Lumens: 9722.6 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 72.8  
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: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-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	92	92	92	81	81	81	71	71	71	66				
1	102	98	95	91	96	93	89	87	82	80	78	73	71	70	64	63	62	58				
2	94	87	81	76	88	82	77	72	73	69	66	65	62	59	58	55	53	50				
3	86	77	70	64	81	73	67	61	65	60	56	58	54	51	52	49	46	43				
4	79	69	61	55	74	65	58	53	58	53	49	52	48	44	47	43	40	37				
5	73	62	54	48	69	59	51	46	53	47	42	47	43	39	42	39	36	33				
6	67	56	48	42	63	53	46	40	48	42	37	43	38	35	39	35	32	29				
7	63	50	42	37	59	48	41	36	44	38	33	39	34	31	35	31	28	26				
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	33	29	26	23				
9	54	42	35	30	51	40	33	29	37	31	27	33	28	25	30	26	23	21				
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	21	19				

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

	0°	90°	180°	270°
0°	43288	43288	43288	43288
5°	43231	44029	43231	44029
10°	43687	45479	43687	45479
15°	43673	44267	43673	44267
20°	42966	45080	42966	45080
25°	42846	46934	42846	46934
30°	42799	47386	42799	47386
35°	42394	44119	42394	44119
40°	41417	38825	41417	38825
45°	39189	30704	39189	30704
50°	35627	23822	35627	23822
55°	31310	18542	31310	18542
60°	27092	15267	27092	15267
65°	23388	13364	23388	13364
70°	21030	11868	21030	11868
75°	19263	10911	19263	10911
80°	16773	10674	16773	10674
85°	12152	5057	12152	5057

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 42075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.9	2.7
10°-20°	749.5	7.7
20°-30°	1158.7	11.9
30°-40°	1393.4	14.3
40°-50°	1251.3	12.9
50°-60°	838.4	8.6
60°-70°	487.7	5.0
70°-80°	250.5	2.6
80°-90°	66.4	0.7
90°-100°	89.1	0.9
100°-110°	259.7	2.7
110°-120°	423.9	4.4
120°-130°	537.9	5.5
130°-140°	575.6	5.9
140°-150°	537.5	5.5
150°-160°	442.3	4.5
160°-170°	296.6	3.1
170°-180°	105.3	1.1
0°-30°	2167.1	22.3
0°-40°	3560.5	36.6
0°-60°	5650.2	58.1
0°-90°	6454.8	66.4
90°-120°	772.7	7.9
90°-150°	2423.6	24.9
90°-180°	3268.0	33.6
0°-180°	9722.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2681	2681	2681	2681	2681	
5°	2667	2717	2667	2717	2667	255
15°	2613	2648	2613	2648	2613	734
25°	2405	2635	2405	2635	2405	1109
35°	2151	2238	2151	2238	2151	1341
45°	1716	1345	1716	1345	1716	1313
55°	1112	659	1112	659	1112	1000
65°	612	350	612	350	612	619
75°	309	175	309	175	309	328
85°	66	27	66	27	66	81
90°	3	25	3	49	3	5
95°	35	26	35	153	35	42
105°	165	264	165	364	165	176
115°	316	439	316	540	316	312
125°	468	695	468	662	468	419
135°	636	910	636	734	636	492
145°	813	1049	813	750	813	509
155°	965	1140	965	778	965	444
165°	1067	1188	1067	895	1067	300
175°	1116	1163	1116	1050	1116	106
180°	1119	1119	1119	1119	1119	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1
2.5°	2670.2	2684.7	2699.3	2692.8	2679.2	2672.8	2673.8	2675.3	2678.2	2681.1	2678.2
5°	2667.4	2688.1	2708.7	2703.9	2690.5	2685.1	2687.5	2692.3	2704.5	2716.6	2704.5
7.5°	2666.9	2696.3	2725.7	2727.9	2721.1	2721.2	2728.3	2737.6	2753.6	2769.7	2753.6
10°	2664.7	2699.9	2735.2	2740.3	2735.5	2733.6	2734.9	2740.0	2757.0	2774.0	2757.0
12.5°	2651.6	2692.6	2733.7	2729.4	2710.0	2699.4	2697.7	2698.7	2707.9	2717.2	2707.9
15°	2612.8	2661.4	2710.0	2690.2	2647.7	2628.3	2631.9	2636.2	2642.2	2648.3	2642.2
17.5°	2544.5	2595.2	2646.0	2628.3	2587.7	2574.0	2587.1	2599.9	2611.8	2623.7	2611.8
20°	2500.7	2550.5	2600.3	2588.2	2555.4	2547.5	2564.5	2582.4	2603.1	2623.7	2603.1
22.5°	2461.4	2511.2	2561.0	2553.2	2526.2	2524.7	2548.5	2573.4	2601.8	2630.3	2601.8
25°	2405.1	2448.8	2492.5	2493.4	2480.1	2493.4	2533.5	2571.5	2603.1	2634.6	2603.1
27.5°	2346.0	2371.8	2397.5	2414.5	2428.6	2462.8	2516.9	2563.1	2585.2	2607.3	2585.2
30°	2295.7	2312.8	2329.8	2361.3	2397.8	2439.7	2487.1	2524.7	2533.2	2541.7	2533.2
32.5°	2241.1	2251.3	2261.5	2306.0	2361.8	2402.3	2427.3	2443.3	2432.4	2421.5	2432.4
35°	2150.9	2159.4	2167.9	2224.7	2297.6	2324.3	2304.9	2284.5	2261.4	2238.4	2261.4
37.5°	2043.8	2061.3	2078.7	2125.0	2180.9	2180.4	2123.6	2074.3	2047.8	2021.4	2047.8
40°	1965.1	1994.2	2023.4	2054.3	2085.9	2059.2	1974.2	1902.8	1872.4	1842.1	1872.4
42.5°	1868.8	1915.5	1962.1	1969.1	1962.7	1905.4	1797.1	1706.5	1669.3	1632.2	1669.3
45°	1716.3	1779.5	1842.7	1806.5	1737.3	1643.8	1525.9	1427.3	1386.0	1344.7	1386.0
47.5°	1536.5	1601.4	1666.2	1598.1	1485.6	1376.8	1271.6	1183.0	1144.4	1105.8	1144.4
50°	1418.4	1470.7	1522.9	1445.8	1325.5	1216.2	1117.8	1033.4	990.9	948.4	990.9
52.5°	1298.2	1335.8	1373.5	1297.1	1182.7	1076.3	977.9	894.4	855.8	817.2	855.8
55°	1112.3	1131.8	1151.2	1080.5	979.6	882.5	788.9	712.1	685.4	658.7	685.4
57.5°	941.8	954.2	966.6	899.5	806.0	719.5	640.1	575.6	555.9	536.2	555.9
60°	839.0	847.5	856.0	788.0	694.5	616.8	554.8	504.4	488.6	472.8	488.6
62.5°	745.0	751.6	758.1	692.6	602.9	533.4	484.1	444.1	432.2	420.3	432.2
65°	612.2	618.3	624.3	568.5	491.9	434.9	397.2	366.8	358.3	349.8	358.3
67.5°	506.7	509.9	513.0	467.0	404.5	358.5	328.9	304.6	296.6	288.6	296.6
70°	445.5	446.7	447.9	407.2	352.6	311.9	285.1	263.6	257.5	251.4	257.5
72.5°	390.8	389.1	387.4	351.1	303.2	268.4	246.5	229.1	225.0	220.8	225.0
75°	308.8	305.2	301.5	271.5	232.6	205.9	191.3	179.8	177.3	174.9	177.3
77.5°	230.7	226.8	222.9	197.9	165.8	147.3	142.5	138.8	138.8	138.8	138.8
80°	180.4	175.5	170.7	151.2	126.9	114.8	114.8	114.8	114.8	114.8	114.8
82.5°	134.5	127.7	120.9	109.0	95.4	88.6	88.6	88.3	87.3	86.4	87.3
85°	65.6	59.5	53.4	51.9	51.9	48.3	41.0	34.6	31.0	27.3	31.0
87.5°	18.2	19.1	20.2	17.5	13.3	11.1	11.1	11.3	11.5	11.5	11.5
90°	3.4	7.9	13.6	18.1	21.5	22.6	22.6	23.7	24.9	24.9	24.9
92.5°	12.4	19.7	19.9	19.9	24.2	26.2	28.0	28.3	29.4	29.4	29.4
95°	35.0	38.4	57.7	56.5	38.4	30.5	26.0	26.0	26.0	26.0	26.0
97.5°	66.9	71.9	75.1	100.6	106.3	102.6	83.7	70.3	62.9	59.5	62.9
100°	95.0	97.2	104.0	105.1	133.4	160.5	147.0	130.0	124.4	121.0	124.4
102.5°	123.0	124.4	134.8	139.5	146.1	161.4	208.5	203.3	199.4	198.7	199.4
105°	165.1	166.2	185.4	194.4	199.0	199.0	197.8	220.4	256.6	264.5	256.6
107.5°	210.0	215.2	237.9	262.0	267.2	268.6	262.7	259.3	258.0	258.9	258.0
110°	240.8	248.7	275.8	306.4	314.3	316.5	314.3	310.9	308.6	308.6	308.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	270.6	282.2	312.9	348.0	361.3	368.1	363.1	360.6	358.4	360.2	358.4
115°	316.5	333.5	374.2	410.4	437.5	440.9	439.8	439.8	438.6	438.6	438.6
117.5°	359.0	386.2	431.8	473.9	505.3	514.4	518.9	517.5	516.2	518.4	516.2
120°	388.9	420.5	472.5	520.0	550.6	564.1	568.6	566.4	568.6	566.4	568.6
122.5°	420.5	459.4	510.5	559.8	595.8	611.1	616.6	617.0	617.5	616.1	617.5
125°	468.0	515.5	575.4	626.3	663.6	681.7	686.2	687.3	689.6	695.3	689.6
127.5°	516.0	569.8	635.6	684.6	722.8	744.8	751.8	754.3	759.0	761.5	759.0
130°	549.4	610.5	677.2	723.5	760.8	784.6	797.0	800.4	806.0	804.9	806.0
132.5°	584.7	648.5	716.1	764.2	798.8	824.4	835.0	844.7	846.7	848.3	846.7
135°	636.5	705.4	773.3	820.7	853.5	878.4	892.0	901.0	906.7	910.0	906.7
137.5°	691.0	763.8	828.9	871.2	904.2	925.7	941.0	950.5	956.4	959.1	956.4
140°	728.0	798.1	861.4	905.5	934.9	956.4	970.0	981.3	988.1	988.1	988.1
142.5°	763.3	832.5	894.0	938.1	963.9	983.5	998.0	1006.6	1014.3	1014.3	1014.3
145°	812.8	881.8	938.3	982.4	1003.9	1022.0	1037.8	1044.6	1049.1	1049.1	1049.1
147.5°	864.6	925.7	977.2	1019.5	1037.6	1058.8	1071.3	1076.7	1082.3	1079.9	1082.3
150°	895.4	951.9	1001.6	1041.2	1059.3	1079.6	1092.1	1096.6	1102.2	1098.8	1102.2
152.5°	925.2	979.0	1024.2	1061.1	1076.5	1096.8	1111.1	1115.6	1119.4	1116.9	1119.4
155°	965.4	1012.9	1054.8	1088.7	1102.2	1121.5	1135.0	1140.7	1145.2	1139.5	1145.2
157.5°	1001.4	1042.3	1078.7	1109.9	1124.4	1140.9	1153.6	1160.6	1165.1	1162.6	1165.1
160°	1023.1	1060.4	1093.2	1122.6	1136.1	1150.8	1164.4	1172.3	1176.8	1173.5	1176.8
162.5°	1041.2	1074.9	1105.9	1132.5	1144.3	1157.2	1173.5	1180.5	1185.0	1180.7	1185.0
165°	1067.2	1094.3	1121.5	1144.1	1154.2	1164.4	1181.4	1189.3	1192.7	1188.2	1192.7
167.5°	1086.9	1107.7	1129.6	1149.0	1156.5	1166.4	1183.4	1190.0	1194.3	1188.6	1194.3
170°	1097.7	1115.8	1135.0	1150.8	1156.5	1165.5	1182.5	1188.2	1191.5	1185.9	1191.5
172.5°	1106.8	1120.3	1135.9	1149.9	1152.9	1160.1	1176.2	1181.8	1184.3	1179.6	1184.3
175°	1115.8	1123.7	1135.0	1144.1	1142.9	1147.5	1161.0	1165.5	1170.1	1163.3	1170.1
177.5°	1120.1	1123.7	1127.3	1132.8	1129.1	1129.1	1139.1	1141.8	1142.7	1139.1	1142.7
180°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1
2.5°	2675.3	2673.8	2672.8	2679.2	2692.8	2699.3	2684.7	2670.2	2684.7	2699.3	2692.8
5°	2692.3	2687.5	2685.1	2690.5	2703.9	2708.7	2688.1	2667.4	2688.1	2708.7	2703.9
7.5°	2737.6	2728.3	2721.2	2721.1	2727.9	2725.7	2696.3	2666.9	2696.3	2725.7	2727.9
10°	2740.0	2734.9	2733.6	2735.5	2740.3	2735.2	2699.9	2664.7	2699.9	2735.2	2740.3
12.5°	2698.7	2697.7	2699.4	2710.0	2729.4	2733.7	2692.6	2651.6	2692.6	2733.7	2729.4
15°	2636.2	2631.9	2628.3	2647.7	2690.2	2710.0	2661.4	2612.8	2661.4	2710.0	2690.2
17.5°	2599.9	2587.1	2574.0	2587.7	2628.3	2646.0	2595.2	2544.5	2595.2	2646.0	2628.3
20°	2582.4	2564.5	2547.5	2555.4	2588.2	2600.3	2550.5	2500.7	2550.5	2600.3	2588.2
22.5°	2573.4	2548.5	2524.7	2526.2	2553.2	2561.0	2511.2	2461.4	2511.2	2561.0	2553.2
25°	2571.5	2533.5	2493.4	2480.1	2493.4	2492.5	2448.8	2405.1	2448.8	2492.5	2493.4
27.5°	2563.1	2516.9	2462.8	2428.6	2414.5	2397.5	2371.8	2346.0	2371.8	2397.5	2414.5
30°	2524.7	2487.1	2439.7	2397.8	2361.3	2329.8	2312.8	2295.7	2312.8	2329.8	2361.3
32.5°	2443.3	2427.3	2402.3	2361.8	2306.0	2261.5	2251.3	2241.1	2251.3	2261.5	2306.0
35°	2284.5	2304.9	2324.3	2297.6	2224.7	2167.9	2159.4	2150.9	2159.4	2167.9	2224.7
37.5°	2074.3	2123.6	2180.4	2180.9	2125.0	2078.7	2061.3	2043.8	2061.3	2078.7	2125.0
40°	1902.8	1974.2	2059.2	2085.9	2054.3	2023.4	1994.2	1965.1	1994.2	2023.4	2054.3
42.5°	1706.5	1797.1	1905.4	1962.7	1969.1	1962.1	1915.5	1868.8	1915.5	1962.1	1969.1
45°	1427.3	1525.9	1643.8	1737.3	1806.5	1842.7	1779.5	1716.3	1779.5	1842.7	1806.5
47.5°	1183.0	1271.6	1376.8	1485.6	1598.1	1666.2	1601.4	1536.5	1601.4	1666.2	1598.1
50°	1033.4	1117.8	1216.2	1325.5	1445.8	1522.9	1470.7	1418.4	1470.7	1522.9	1445.8
52.5°	894.4	977.9	1076.3	1182.7	1297.1	1373.5	1335.8	1298.2	1335.8	1373.5	1297.1
55°	712.1	788.9	882.5	979.6	1080.5	1151.2	1131.8	1112.3	1131.8	1151.2	1080.5
57.5°	575.6	640.1	719.5	806.0	899.5	966.6	954.2	941.8	954.2	966.6	899.5
60°	504.4	554.8	616.8	694.5	788.0	856.0	847.5	839.0	847.5	856.0	788.0
62.5°	444.1	484.1	533.4	602.9	692.6	758.1	751.6	745.0	751.6	758.1	692.6
65°	366.8	397.2	434.9	491.9	568.5	624.3	618.3	612.2	618.3	624.3	568.5
67.5°	304.6	328.9	358.5	404.5	467.0	513.0	509.9	506.7	509.9	513.0	467.0
70°	263.6	285.1	311.9	352.6	407.2	447.9	446.7	445.5	446.7	447.9	407.2
72.5°	229.1	246.5	268.4	303.2	351.1	387.4	389.1	390.8	389.1	387.4	351.1
75°	179.8	191.3	205.9	232.6	271.5	301.5	305.2	308.8	305.2	301.5	271.5
77.5°	138.8	142.5	147.3	165.8	197.9	222.9	226.8	230.7	226.8	222.9	197.9
80°	114.8	114.8	114.8	126.9	151.2	170.7	175.5	180.4	175.5	170.7	151.2
82.5°	88.3	88.6	88.6	95.4	109.0	120.9	127.7	134.5	127.7	120.9	109.0
85°	34.6	41.0	48.3	51.9	51.9	53.4	59.5	65.6	59.5	53.4	51.9
87.5°	11.3	11.1	11.1	13.3	17.5	20.2	19.1	18.2	19.1	20.0	17.9
90°	23.7	22.6	22.6	21.5	18.1	13.6	7.9	3.4	7.9	12.4	20.3
92.5°	28.3	28.0	26.2	24.2	19.9	19.9	19.7	12.4	21.5	30.5	43.9
95°	26.0	26.0	30.5	38.4	56.5	57.7	38.4	35.0	49.7	70.1	88.2
97.5°	70.3	83.7	102.6	106.3	100.6	75.1	71.9	66.9	91.1	111.2	140.4
100°	130.0	147.0	160.5	133.4	105.1	104.0	97.2	95.0	121.0	140.2	168.4
102.5°	203.3	208.5	161.4	146.1	139.5	134.8	124.4	123.0	149.0	175.5	199.2
105°	220.4	197.8	199.0	199.0	194.4	185.4	166.2	165.1	194.4	225.0	254.4
107.5°	259.3	262.7	268.6	267.2	262.0	237.9	215.2	210.0	236.5	273.1	305.5
110°	310.9	314.3	316.5	314.3	306.4	275.8	248.7	240.8	264.5	303.0	338.0



TEST NUMBER: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	360.6	363.1	368.1	361.3	348.0	312.9	282.2	270.6	294.4	333.7	369.7
115°	439.8	439.8	440.9	437.5	410.4	374.2	333.5	316.5	336.9	373.1	412.6
117.5°	517.5	518.9	514.4	505.3	473.9	431.8	386.2	359.0	375.1	413.3	454.0
120°	566.4	568.6	564.1	550.6	520.0	472.5	420.5	388.9	401.3	438.6	479.3
122.5°	617.0	616.6	611.1	595.8	559.8	510.5	459.4	420.5	425.7	460.3	500.1
125°	687.3	686.2	681.7	663.6	626.3	575.4	515.5	468.0	461.2	490.6	531.3
127.5°	754.3	751.8	744.8	722.8	684.6	635.6	569.8	516.0	500.8	519.4	556.7
130°	800.4	797.0	784.6	760.8	723.5	677.2	610.5	549.4	527.9	539.2	572.0
132.5°	844.7	835.0	824.4	798.8	764.2	716.1	648.5	584.7	555.1	560.0	585.6
135°	901.0	892.0	878.4	853.5	820.7	773.3	705.4	636.5	595.8	591.2	605.9
137.5°	950.5	941.0	925.7	904.2	871.2	828.9	763.8	691.0	639.6	624.5	630.1
140°	981.3	970.0	956.4	934.9	905.5	861.4	798.1	728.0	670.4	648.9	645.5
142.5°	1006.6	998.0	983.5	963.9	938.1	894.0	832.5	763.3	702.0	674.2	666.3
145°	1044.6	1037.8	1022.0	1003.9	982.4	938.3	881.8	812.8	751.8	715.6	698.6
147.5°	1076.7	1071.3	1058.8	1037.6	1019.5	977.2	925.7	864.6	802.0	757.2	735.3
150°	1096.6	1092.1	1079.6	1059.3	1041.2	1001.6	951.9	895.4	835.4	788.0	759.7
152.5°	1115.6	1111.1	1096.8	1076.5	1061.1	1024.2	979.0	925.2	864.4	816.9	787.7
155°	1140.7	1135.0	1121.5	1102.2	1088.7	1054.8	1012.9	965.4	913.4	863.7	830.9
157.5°	1160.6	1153.6	1140.9	1124.4	1109.9	1078.7	1042.3	1001.4	955.9	908.5	875.0
160°	1172.3	1164.4	1150.8	1136.1	1122.6	1093.2	1060.4	1023.1	981.3	938.3	902.1
162.5°	1180.5	1173.5	1157.2	1144.3	1132.5	1105.9	1074.9	1041.2	1003.9	966.3	932.9
165°	1189.3	1181.4	1164.4	1154.2	1144.1	1121.5	1094.3	1067.2	1035.5	1005.0	977.9
167.5°	1190.0	1183.4	1166.4	1156.5	1149.0	1129.6	1107.7	1086.9	1062.2	1038.2	1015.6
170°	1188.2	1182.5	1165.5	1156.5	1150.8	1135.0	1115.8	1097.7	1078.5	1058.1	1040.1
172.5°	1181.8	1176.2	1160.1	1152.9	1149.9	1135.9	1120.3	1106.8	1090.3	1075.3	1060.9
175°	1165.5	1161.0	1147.5	1142.9	1144.1	1135.0	1123.7	1115.8	1105.6	1096.6	1088.7
177.5°	1141.8	1139.1	1129.1	1129.1	1132.8	1127.3	1123.7	1120.1	1115.6	1112.9	1110.1
180°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2



TEST NUMBER: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1	2681.1
2.5°	2679.2	2672.8	2673.8	2675.3	2678.2	2681.1	2678.2	2675.3	2673.8	2672.8	2679.2
5°	2690.5	2685.1	2687.5	2692.3	2704.5	2716.6	2704.5	2692.3	2687.5	2685.1	2690.5
7.5°	2721.1	2721.2	2728.3	2737.6	2753.6	2769.7	2753.6	2737.6	2728.3	2721.2	2721.1
10°	2735.5	2733.6	2734.9	2740.0	2757.0	2774.0	2757.0	2740.0	2734.9	2733.6	2735.5
12.5°	2710.0	2699.4	2697.7	2698.7	2707.9	2717.2	2707.9	2698.7	2697.7	2699.4	2710.0
15°	2647.7	2628.3	2631.9	2636.2	2642.2	2648.3	2642.2	2636.2	2631.9	2628.3	2647.7
17.5°	2587.7	2574.0	2587.1	2599.9	2611.8	2623.7	2611.8	2599.9	2587.1	2574.0	2587.7
20°	2555.4	2547.5	2564.5	2582.4	2603.1	2623.7	2603.1	2582.4	2564.5	2547.5	2555.4
22.5°	2526.2	2524.7	2548.5	2573.4	2601.8	2630.3	2601.8	2573.4	2548.5	2524.7	2526.2
25°	2480.1	2493.4	2533.5	2571.5	2603.1	2634.6	2603.1	2571.5	2533.5	2493.4	2480.1
27.5°	2428.6	2462.8	2516.9	2563.1	2585.2	2607.3	2585.2	2563.1	2516.9	2462.8	2428.6
30°	2397.8	2439.7	2487.1	2524.7	2533.2	2541.7	2533.2	2524.7	2487.1	2439.7	2397.8
32.5°	2361.8	2402.3	2427.3	2443.3	2432.4	2421.5	2432.4	2443.3	2427.3	2402.3	2361.8
35°	2297.6	2324.3	2304.9	2284.5	2261.4	2238.4	2261.4	2284.5	2304.9	2324.3	2297.6
37.5°	2180.9	2180.4	2123.6	2074.3	2047.8	2021.4	2047.8	2074.3	2123.6	2180.4	2180.9
40°	2085.9	2059.2	1974.2	1902.8	1872.4	1842.1	1872.4	1902.8	1974.2	2059.2	2085.9
42.5°	1962.7	1905.4	1797.1	1706.5	1669.3	1632.2	1669.3	1706.5	1797.1	1905.4	1962.7
45°	1737.3	1643.8	1525.9	1427.3	1386.0	1344.7	1386.0	1427.3	1525.9	1643.8	1737.3
47.5°	1485.6	1376.8	1271.6	1183.0	1144.4	1105.8	1144.4	1183.0	1271.6	1376.8	1485.6
50°	1325.5	1216.2	1117.8	1033.4	990.9	948.4	990.9	1033.4	1117.8	1216.2	1325.5
52.5°	1182.7	1076.3	977.9	894.4	855.8	817.2	855.8	894.4	977.9	1076.3	1182.7
55°	979.6	882.5	788.9	712.1	685.4	658.7	685.4	712.1	788.9	882.5	979.6
57.5°	806.0	719.5	640.1	575.6	555.9	536.2	555.9	575.6	640.1	719.5	806.0
60°	694.5	616.8	554.8	504.4	488.6	472.8	488.6	504.4	554.8	616.8	694.5
62.5°	602.9	533.4	484.1	444.1	432.2	420.3	432.2	444.1	484.1	533.4	602.9
65°	491.9	434.9	397.2	366.8	358.3	349.8	358.3	366.8	397.2	434.9	491.9
67.5°	404.5	358.5	328.9	304.6	296.6	288.6	296.6	304.6	328.9	358.5	404.5
70°	352.6	311.9	285.1	263.6	257.5	251.4	257.5	263.6	285.1	311.9	352.6
72.5°	303.2	268.4	246.5	229.1	225.0	220.8	225.0	229.1	246.5	268.4	303.2
75°	232.6	205.9	191.3	179.8	177.3	174.9	177.3	179.8	191.3	205.9	232.6
77.5°	165.8	147.3	142.5	138.8	138.8	138.8	138.8	138.8	142.5	147.3	165.8
80°	126.9	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	126.9
82.5°	95.4	88.6	88.6	88.3	87.3	86.4	87.3	88.3	88.6	88.6	95.4
85°	51.9	48.3	41.0	34.6	31.0	27.3	31.0	34.6	41.0	48.3	51.9
87.5°	14.2	13.3	14.9	15.8	16.7	16.3	16.7	15.8	14.9	13.3	14.2
90°	26.0	33.9	41.8	46.4	50.9	48.6	50.9	46.4	41.8	33.9	26.0
92.5°	52.2	65.6	75.3	83.4	87.0	86.6	87.0	83.4	75.3	65.6	52.2
95°	105.1	121.0	136.8	148.1	154.9	152.6	154.9	148.1	136.8	121.0	105.1
97.5°	162.1	183.4	201.0	211.6	218.4	222.9	218.4	211.6	201.0	183.4	162.1
100°	200.1	220.4	240.8	253.2	264.5	269.1	264.5	253.2	240.8	220.4	200.1
102.5°	230.8	257.5	279.7	293.0	302.5	307.0	302.5	293.0	279.7	257.5	230.8
105°	281.5	309.8	333.5	350.5	360.6	364.0	360.6	350.5	333.5	309.8	281.5
107.5°	332.1	361.3	383.2	402.0	414.4	421.7	414.4	402.0	383.2	361.3	332.1
110°	371.9	395.7	419.4	436.4	448.8	453.3	448.8	436.4	419.4	395.7	371.9



TEST NUMBER: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	405.4	431.8	455.6	472.5	486.8	493.1	486.8	472.5	455.6	431.8	405.4
115°	452.2	487.2	508.7	524.6	534.7	540.4	534.7	524.6	508.7	487.2	452.2
117.5°	491.1	527.7	551.2	563.4	568.2	572.3	568.2	563.4	551.2	527.7	491.1
120°	515.5	549.4	576.6	592.4	598.0	600.3	598.0	592.4	576.6	549.4	515.5
122.5°	538.1	570.2	596.5	615.9	625.2	627.4	625.2	615.9	596.5	570.2	538.1
125°	569.8	600.3	627.4	646.6	656.8	662.5	656.8	646.6	627.4	600.3	569.8
127.5°	597.4	630.4	655.2	672.6	682.6	687.1	682.6	672.6	655.2	630.4	597.4
130°	612.7	646.6	671.5	690.7	699.8	704.3	699.8	690.7	671.5	646.6	612.7
132.5°	624.5	660.2	686.0	703.4	713.3	717.9	713.3	703.4	686.0	660.2	624.5
135°	638.7	676.0	703.2	720.1	729.2	733.7	729.2	720.1	703.2	676.0	638.7
137.5°	651.2	685.1	713.3	731.2	739.3	742.3	739.3	731.2	713.3	685.1	651.2
140°	660.2	689.6	717.9	734.8	743.9	745.0	743.9	734.8	717.9	689.6	660.2
142.5°	672.0	695.0	719.7	736.6	745.7	747.7	745.7	736.6	719.7	695.0	672.0
145°	693.0	706.6	723.5	739.3	747.3	749.5	747.3	739.3	723.5	706.6	693.0
147.5°	719.4	723.7	732.6	743.0	750.6	752.2	750.6	743.0	732.6	723.7	719.4
150°	739.3	738.2	741.6	748.4	755.2	754.0	755.2	748.4	741.6	738.2	739.3
152.5°	762.0	755.4	755.2	758.3	761.5	761.3	761.5	758.3	755.2	755.4	762.0
155°	800.4	788.0	781.2	778.9	778.9	777.8	778.9	778.9	781.2	788.0	800.4
157.5°	842.7	825.3	815.1	809.7	808.1	805.6	808.1	809.7	815.1	825.3	842.7
160°	871.6	852.4	842.2	833.2	829.8	826.4	829.8	833.2	842.2	852.4	871.6
162.5°	898.7	880.4	869.4	861.2	857.8	852.6	857.8	861.2	869.4	880.4	898.7
165°	942.8	923.6	911.2	904.4	899.9	895.4	899.9	904.4	911.2	923.6	942.8
167.5°	986.9	965.9	957.8	950.1	945.8	937.6	945.8	950.1	957.8	965.9	986.9
170°	1014.1	994.8	990.3	983.5	975.6	966.6	975.6	983.5	990.3	994.8	1014.1
172.5°	1037.6	1024.7	1020.2	1013.4	1010.9	1003.7	1010.9	1013.4	1020.2	1024.7	1037.6
175°	1071.7	1061.5	1061.5	1060.4	1057.0	1050.2	1057.0	1060.4	1061.5	1061.5	1071.7
177.5°	1100.2	1094.8	1098.4	1098.4	1097.5	1091.2	1097.5	1098.4	1098.4	1094.8	1100.2
180°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2



TEST NUMBER: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	2681.1	2681.1	2681.1	2681.1
2.5°	2692.8	2699.3	2684.7	2670.2
5°	2703.9	2708.7	2688.1	2667.4
7.5°	2727.9	2725.7	2696.3	2666.9
10°	2740.3	2735.2	2699.9	2664.7
12.5°	2729.4	2733.7	2692.6	2651.6
15°	2690.2	2710.0	2661.4	2612.8
17.5°	2628.3	2646.0	2595.2	2544.5
20°	2588.2	2600.3	2550.5	2500.7
22.5°	2553.2	2561.0	2511.2	2461.4
25°	2493.4	2492.5	2448.8	2405.1
27.5°	2414.5	2397.5	2371.8	2346.0
30°	2361.3	2329.8	2312.8	2295.7
32.5°	2306.0	2261.5	2251.3	2241.1
35°	2224.7	2167.9	2159.4	2150.9
37.5°	2125.0	2078.7	2061.3	2043.8
40°	2054.3	2023.4	1994.2	1965.1
42.5°	1969.1	1962.1	1915.5	1868.8
45°	1806.5	1842.7	1779.5	1716.3
47.5°	1598.1	1666.2	1601.4	1536.5
50°	1445.8	1522.9	1470.7	1418.4
52.5°	1297.1	1373.5	1335.8	1298.2
55°	1080.5	1151.2	1131.8	1112.3
57.5°	899.5	966.6	954.2	941.8
60°	788.0	856.0	847.5	839.0
62.5°	692.6	758.1	751.6	745.0
65°	568.5	624.3	618.3	612.2
67.5°	467.0	513.0	509.9	506.7
70°	407.2	447.9	446.7	445.5
72.5°	351.1	387.4	389.1	390.8
75°	271.5	301.5	305.2	308.8
77.5°	197.9	222.9	226.8	230.7
80°	151.2	170.7	175.5	180.4
82.5°	109.0	120.9	127.7	134.5
85°	51.9	53.4	59.5	65.6
87.5°	17.9	20.0	19.1	18.2
90°	20.3	12.4	7.9	3.4
92.5°	43.9	30.5	21.5	12.4
95°	88.2	70.1	49.7	35.0
97.5°	140.4	111.2	91.1	66.9
100°	168.4	140.2	121.0	95.0
102.5°	199.2	175.5	149.0	123.0
105°	254.4	225.0	194.4	165.1
107.5°	305.5	273.1	236.5	210.0
110°	338.0	303.0	264.5	240.8

TEST NUMBER: P1428246

CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	369.7	333.7	294.4	270.6
115°	412.6	373.1	336.9	316.5
117.5°	454.0	413.3	375.1	359.0
120°	479.3	438.6	401.3	388.9
122.5°	500.1	460.3	425.7	420.5
125°	531.3	490.6	461.2	468.0
127.5°	556.7	519.4	500.8	516.0
130°	572.0	539.2	527.9	549.4
132.5°	585.6	560.0	555.1	584.7
135°	605.9	591.2	595.8	636.5
137.5°	630.1	624.5	639.6	691.0
140°	645.5	648.9	670.4	728.0
142.5°	666.3	674.2	702.0	763.3
145°	698.6	715.6	751.8	812.8
147.5°	735.3	757.2	802.0	864.6
150°	759.7	788.0	835.4	895.4
152.5°	787.7	816.9	864.4	925.2
155°	830.9	863.7	913.4	965.4
157.5°	875.0	908.5	955.9	1001.4
160°	902.1	938.3	981.3	1023.1
162.5°	932.9	966.3	1003.9	1041.2
165°	977.9	1005.0	1035.5	1067.2
167.5°	1015.6	1038.2	1062.2	1086.9
170°	1040.1	1058.1	1078.5	1097.7
172.5°	1060.9	1075.3	1090.3	1106.8
175°	1088.7	1096.6	1105.6	1115.8
177.5°	1110.1	1112.9	1115.6	1120.1
180°	1119.2	1119.2	1119.2	1119.2



TEST NUMBER: P1428246  
 CATALOG NUMBER: SQ2W-PR1-K-075U-125D-L835-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	21.18	22.15	21.99	22.98	24.00	17.55	18.52	18.36	19.35	20.37
	3H	22.39	23.26	23.22	24.10	25.15	18.72	19.58	19.54	20.42	21.47
	4H	22.88	23.70	23.73	24.54	25.60	19.19	20.00	20.03	20.85	21.91
	6H	23.19	23.94	24.04	24.79	25.86	19.53	20.28	20.39	21.14	22.21
	8H	23.29	24.01	24.16	24.88	25.95	19.67	20.39	20.54	21.26	22.33
	12H	23.34	24.02	24.20	24.88	25.98	19.71	20.39	20.58	21.25	22.35
4H	2H	21.29	22.11	22.14	22.96	24.02	18.27	19.09	19.12	19.93	20.99
	3H	22.77	23.44	23.62	24.32	25.39	19.64	20.31	20.49	21.19	22.27
	4H	23.40	24.01	24.27	24.89	25.99	20.19	20.80	21.06	21.68	22.78
	6H	23.84	24.36	24.72	25.26	26.37	20.63	21.15	21.51	22.05	23.16
	8H	24.00	24.49	24.88	25.38	26.50	20.81	21.30	21.70	22.20	23.32
	12H	24.07	24.51	24.97	25.42	26.55	20.86	21.31	21.77	22.22	23.34
8H	4H	23.43	23.92	24.32	24.82	25.94	20.52	21.01	21.41	21.91	23.03
	6H	23.97	24.37	24.88	25.31	26.43	21.07	21.47	21.98	22.41	23.53
	8H	24.20	24.56	25.13	25.49	26.63	21.33	21.69	22.25	22.62	23.75
	12H	24.32	24.64	25.25	25.56	26.75	21.43	21.74	22.35	22.66	23.85
12H	4H	23.39	23.84	24.30	24.75	25.87	20.55	20.99	21.45	21.90	23.03
	6H	23.96	24.32	24.88	25.25	26.38	21.14	21.50	22.06	22.43	23.56
	8H	24.21	24.53	25.14	25.45	26.64	21.43	21.75	22.36	22.67	23.86