

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: P1428323

Luminaire Tested: SQ2W-PW1-0U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428323
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PW1-0U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE WAVES LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

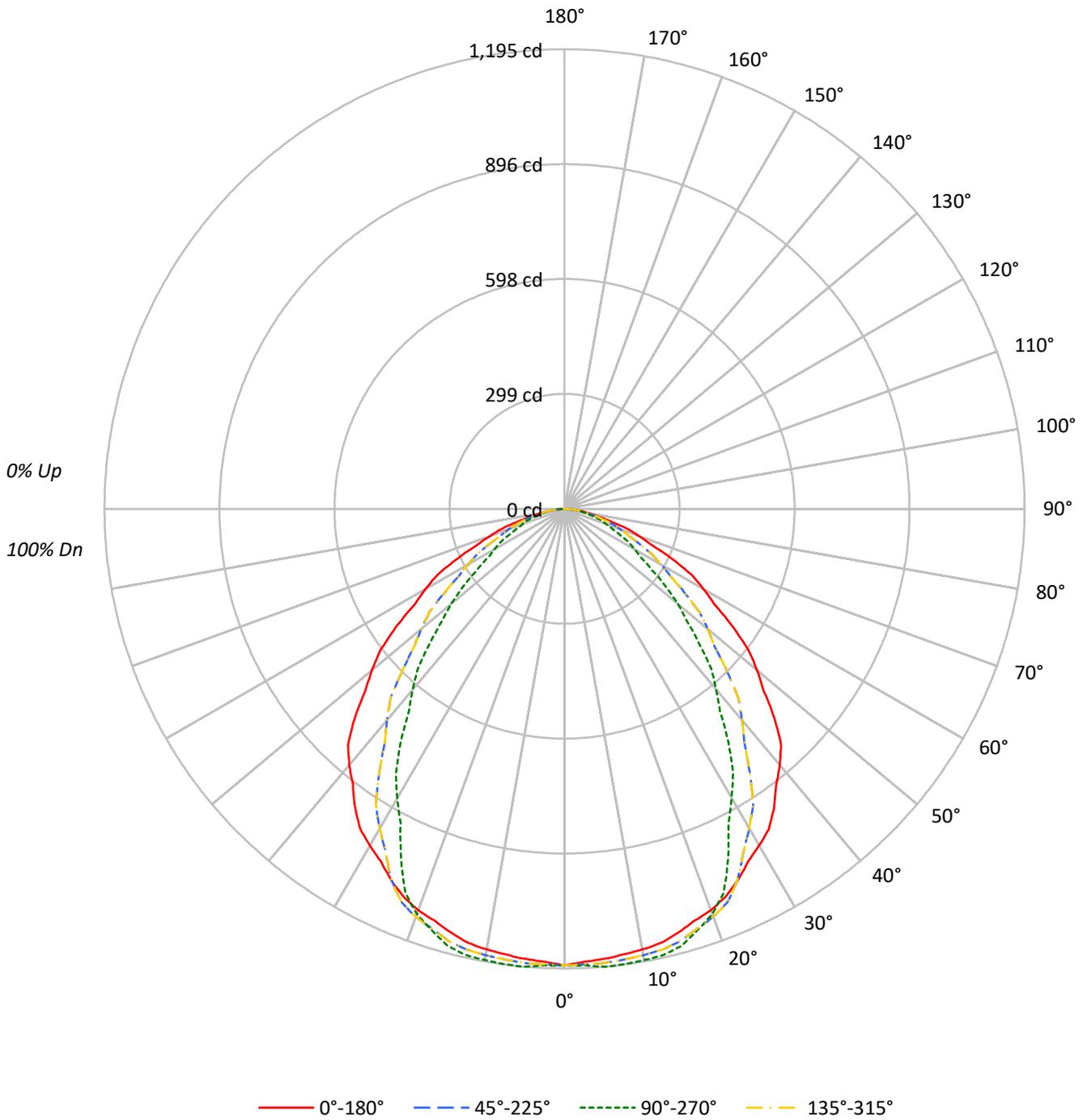
Lumens per Lamp: N/A
Luminaire Lumens: 2634.3 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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

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CATALOG NUMBER: SQ2W-PW1-0U-050D-L830-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19168	19168	19168	19168
5°	19040	19369	19040	19369
10°	19074	19537	19074	19537
15°	19069	19655	19069	19655
20°	19077	19271	19077	19271
25°	18974	17907	18974	17907
30°	18845	16188	18845	16188
35°	18697	14619	18697	14619
40°	18326	12916	18326	12916
45°	17607	11282	17607	11282
50°	16387	9655	16387	9655
55°	14989	7828	14989	7828
60°	13436	6755	13436	6755
65°	11748	6006	11748	6006
70°	9607	5443	9607	5443
75°	7473	5009	7473	5009
80°	5569	4416	5569	4416
85°	3779	2519	3779	2519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17607 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	4.3
10°-20°	327.6	12.4
20°-30°	482.0	18.3
30°-40°	527.0	20.0
40°-50°	472.8	17.9
50°-60°	352.7	13.4
60°-70°	222.9	8.5
70°-80°	110.4	4.2
80°-90°	25.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	922.6	35.0
0°-40°	1449.7	55.0
0°-60°	2275.1	86.4
0°-90°	2634.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1187	1187	1187	1187	1187	
5°	1175	1195	1175	1195	1175	112
15°	1141	1176	1141	1176	1141	322
25°	1065	1005	1065	1005	1065	490
35°	949	742	949	742	949	592
45°	771	494	771	494	771	591
55°	532	278	532	278	532	476
65°	308	157	308	157	308	305
75°	120	80	120	80	120	132
85°	20	14	20	14	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1179.0	1185.9	1192.7	1191.1	1186.7	1184.7	1185.1	1185.7	1186.9	1188.1	1186.9
5°	1174.8	1183.3	1191.8	1190.6	1186.1	1184.0	1184.6	1186.1	1190.6	1195.1	1190.6
7.5°	1168.9	1177.5	1186.2	1185.8	1182.3	1181.5	1183.2	1185.6	1190.0	1194.4	1190.0
10°	1163.4	1172.5	1181.5	1181.5	1178.5	1178.3	1180.8	1183.7	1187.7	1191.7	1187.7
12.5°	1156.2	1165.7	1175.1	1175.8	1173.6	1173.9	1176.9	1180.1	1184.1	1188.1	1184.1
15°	1140.8	1150.9	1160.9	1163.1	1162.6	1164.1	1167.6	1170.9	1173.4	1175.9	1173.4
17.5°	1123.0	1133.0	1143.1	1145.1	1144.3	1144.4	1145.4	1146.3	1147.5	1148.7	1147.5
20°	1110.3	1120.4	1130.4	1131.8	1130.3	1127.8	1124.2	1121.6	1121.6	1121.6	1121.6
22.5°	1092.2	1103.1	1113.9	1114.0	1110.5	1103.9	1094.4	1086.4	1083.2	1080.0	1083.2
25°	1065.1	1075.6	1086.2	1081.3	1071.2	1056.4	1036.8	1020.2	1012.7	1005.2	1012.7
27.5°	1033.4	1042.0	1050.5	1037.7	1017.8	993.9	966.1	942.6	932.2	921.7	932.2
30°	1010.8	1017.3	1023.9	1003.6	974.5	944.6	913.9	888.4	878.4	868.3	878.4
32.5°	987.3	989.8	992.3	965.7	929.3	895.2	863.3	836.7	825.8	815.0	825.8
35°	948.6	944.1	939.6	904.1	858.4	819.5	787.3	760.8	751.3	741.7	751.3
37.5°	902.9	889.5	876.0	836.1	787.3	746.1	712.5	684.6	674.0	663.5	674.0
40°	869.5	850.4	831.3	788.4	737.7	695.5	661.8	633.9	623.4	612.8	623.4
42.5°	832.4	808.5	784.5	740.5	689.8	647.5	613.9	585.9	574.9	564.0	574.9
45°	771.1	743.0	714.8	669.0	617.2	575.0	542.3	515.2	504.6	494.1	504.6
47.5°	702.1	674.2	646.3	600.5	548.9	507.2	475.6	449.5	440.5	431.5	440.5
50°	652.4	625.3	598.1	554.4	505.2	464.7	433.0	406.5	395.5	384.4	395.5
52.5°	601.7	577.4	553.1	511.0	462.9	422.7	390.2	362.1	347.0	332.0	347.0
55°	532.5	509.4	486.3	446.6	401.4	360.7	324.5	295.2	286.7	278.1	286.7
57.5°	461.3	441.3	421.3	385.6	344.7	307.8	275.0	248.6	241.5	234.5	241.5
60°	416.1	398.5	380.9	346.7	307.0	273.4	245.7	223.2	216.2	209.2	216.2
62.5°	372.7	357.1	341.5	308.7	270.3	240.0	218.0	200.0	194.2	188.4	194.2
65°	307.5	296.0	284.4	257.4	225.3	200.1	182.0	167.2	162.2	157.2	162.2
67.5°	244.2	237.8	231.4	211.1	186.3	166.0	150.1	137.3	134.0	130.7	134.0
70°	203.5	201.5	199.5	182.8	161.2	143.8	130.8	120.4	117.8	115.3	117.8
72.5°	168.2	169.0	169.8	156.0	137.2	122.6	112.4	104.3	102.6	100.9	102.6
75°	119.8	123.9	127.9	118.7	105.2	94.8	87.8	82.3	81.3	80.3	81.3
77.5°	81.6	87.7	93.7	87.7	77.8	70.2	65.0	60.9	60.1	59.2	60.1
80°	59.9	66.0	72.0	67.8	60.3	54.5	50.5	47.5	47.5	47.5	47.5
82.5°	41.8	46.7	51.5	48.5	43.0	39.2	37.2	35.7	35.7	35.7	35.7
85°	20.4	22.9	25.4	24.5	22.5	20.0	17.0	14.6	14.1	13.6	14.1
87.5°	5.4	6.6	7.8	6.6	4.6	3.4	3.0	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1185.7	1185.1	1184.7	1186.7	1191.1	1192.7	1185.9	1179.0	1185.9	1192.7	1191.1
5°	1186.1	1184.6	1184.0	1186.1	1190.6	1191.8	1183.3	1174.8	1183.3	1191.8	1190.6
7.5°	1185.6	1183.2	1181.5	1182.3	1185.8	1186.2	1177.5	1168.9	1177.5	1186.2	1185.8
10°	1183.7	1180.8	1178.3	1178.5	1181.5	1181.5	1172.5	1163.4	1172.5	1181.5	1181.5
12.5°	1180.1	1176.9	1173.9	1173.6	1175.8	1175.1	1165.7	1156.2	1165.7	1175.1	1175.8
15°	1170.9	1167.6	1164.1	1162.6	1163.1	1160.9	1150.9	1140.8	1150.9	1160.9	1163.1
17.5°	1146.3	1145.4	1144.4	1144.3	1145.1	1143.1	1133.0	1123.0	1133.0	1143.1	1145.1
20°	1121.6	1124.2	1127.8	1130.3	1131.8	1130.4	1120.4	1110.3	1120.4	1130.4	1131.8
22.5°	1086.4	1094.4	1103.9	1110.5	1114.0	1113.9	1103.1	1092.2	1103.1	1113.9	1114.0
25°	1020.2	1036.8	1056.4	1071.2	1081.3	1086.2	1075.6	1065.1	1075.6	1086.2	1081.3
27.5°	942.6	966.1	993.9	1017.8	1037.7	1050.5	1042.0	1033.4	1042.0	1050.5	1037.7
30°	888.4	913.9	944.6	974.5	1003.6	1023.9	1017.3	1010.8	1017.3	1023.9	1003.6
32.5°	836.7	863.3	895.2	929.3	965.7	992.3	989.8	987.3	989.8	992.3	965.7
35°	760.8	787.3	819.5	858.4	904.1	939.6	944.1	948.6	944.1	939.6	904.1
37.5°	684.6	712.5	746.1	787.3	836.1	876.0	889.5	902.9	889.5	876.0	836.1
40°	633.9	661.8	695.5	737.7	788.4	831.3	850.4	869.5	850.4	831.3	788.4
42.5°	585.9	613.9	647.5	689.8	740.5	784.5	808.5	832.4	808.5	784.5	740.5
45°	515.2	542.3	575.0	617.2	669.0	714.8	743.0	771.1	743.0	714.8	669.0
47.5°	449.5	475.6	507.2	548.9	600.5	646.3	674.2	702.1	674.2	646.3	600.5
50°	406.5	433.0	464.7	505.2	554.4	598.1	625.3	652.4	625.3	598.1	554.4
52.5°	362.1	390.2	422.7	462.9	511.0	553.1	577.4	601.7	577.4	553.1	511.0
55°	295.2	324.5	360.7	401.4	446.6	486.3	509.4	532.5	509.4	486.3	446.6
57.5°	248.6	275.0	307.8	344.7	385.6	421.3	441.3	461.3	441.3	421.3	385.6
60°	223.2	245.7	273.4	307.0	346.7	380.9	398.5	416.1	398.5	380.9	346.7
62.5°	200.0	218.0	240.0	270.3	308.7	341.5	357.1	372.7	357.1	341.5	308.7
65°	167.2	182.0	200.1	225.3	257.4	284.4	296.0	307.5	296.0	284.4	257.4
67.5°	137.3	150.1	166.0	186.3	211.1	231.4	237.8	244.2	237.8	231.4	211.1
70°	120.4	130.8	143.8	161.2	182.8	199.5	201.5	203.5	201.5	199.5	182.8
72.5°	104.3	112.4	122.6	137.2	156.0	169.8	169.0	168.2	169.0	169.8	156.0
75°	82.3	87.8	94.8	105.2	118.7	127.9	123.9	119.8	123.9	127.9	118.7
77.5°	60.9	65.0	70.2	77.8	87.7	93.7	87.7	81.6	87.7	93.7	87.7
80°	47.5	50.5	54.5	60.3	67.8	72.0	66.0	59.9	66.0	72.0	67.8
82.5°	35.7	37.2	39.2	43.0	48.5	51.5	46.7	41.8	46.7	51.5	48.5
85°	14.6	17.0	20.0	22.5	24.5	25.4	22.9	20.4	22.9	25.4	24.5
87.5°	2.7	3.0	3.4	4.6	6.6	7.8	6.6	5.4	6.6	7.8	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2	1187.2
2.5°	1186.7	1184.7	1185.1	1185.7	1186.9	1188.1	1186.9	1185.7	1185.1	1184.7	1186.7
5°	1186.1	1184.0	1184.6	1186.1	1190.6	1195.1	1190.6	1186.1	1184.6	1184.0	1186.1
7.5°	1182.3	1181.5	1183.2	1185.6	1190.0	1194.4	1190.0	1185.6	1183.2	1181.5	1182.3
10°	1178.5	1178.3	1180.8	1183.7	1187.7	1191.7	1187.7	1183.7	1180.8	1178.3	1178.5
12.5°	1173.6	1173.9	1176.9	1180.1	1184.1	1188.1	1184.1	1180.1	1176.9	1173.9	1173.6
15°	1162.6	1164.1	1167.6	1170.9	1173.4	1175.9	1173.4	1170.9	1167.6	1164.1	1162.6
17.5°	1144.3	1144.4	1145.4	1146.3	1147.5	1148.7	1147.5	1146.3	1145.4	1144.4	1144.3
20°	1130.3	1127.8	1124.2	1121.6	1121.6	1121.6	1121.6	1121.6	1124.2	1127.8	1130.3
22.5°	1110.5	1103.9	1094.4	1086.4	1083.2	1080.0	1083.2	1086.4	1094.4	1103.9	1110.5
25°	1071.2	1056.4	1036.8	1020.2	1012.7	1005.2	1012.7	1020.2	1036.8	1056.4	1071.2
27.5°	1017.8	993.9	966.1	942.6	932.2	921.7	932.2	942.6	966.1	993.9	1017.8
30°	974.5	944.6	913.9	888.4	878.4	868.3	878.4	888.4	913.9	944.6	974.5
32.5°	929.3	895.2	863.3	836.7	825.8	815.0	825.8	836.7	863.3	895.2	929.3
35°	858.4	819.5	787.3	760.8	751.3	741.7	751.3	760.8	787.3	819.5	858.4
37.5°	787.3	746.1	712.5	684.6	674.0	663.5	674.0	684.6	712.5	746.1	787.3
40°	737.7	695.5	661.8	633.9	623.4	612.8	623.4	633.9	661.8	695.5	737.7
42.5°	689.8	647.5	613.9	585.9	574.9	564.0	574.9	585.9	613.9	647.5	689.8
45°	617.2	575.0	542.3	515.2	504.6	494.1	504.6	515.2	542.3	575.0	617.2
47.5°	548.9	507.2	475.6	449.5	440.5	431.5	440.5	449.5	475.6	507.2	548.9
50°	505.2	464.7	433.0	406.5	395.5	384.4	395.5	406.5	433.0	464.7	505.2
52.5°	462.9	422.7	390.2	362.1	347.0	332.0	347.0	362.1	390.2	422.7	462.9
55°	401.4	360.7	324.5	295.2	286.7	278.1	286.7	295.2	324.5	360.7	401.4
57.5°	344.7	307.8	275.0	248.6	241.5	234.5	241.5	248.6	275.0	307.8	344.7
60°	307.0	273.4	245.7	223.2	216.2	209.2	216.2	223.2	245.7	273.4	307.0
62.5°	270.3	240.0	218.0	200.0	194.2	188.4	194.2	200.0	218.0	240.0	270.3
65°	225.3	200.1	182.0	167.2	162.2	157.2	162.2	167.2	182.0	200.1	225.3
67.5°	186.3	166.0	150.1	137.3	134.0	130.7	134.0	137.3	150.1	166.0	186.3
70°	161.2	143.8	130.8	120.4	117.8	115.3	117.8	120.4	130.8	143.8	161.2
72.5°	137.2	122.6	112.4	104.3	102.6	100.9	102.6	104.3	112.4	122.6	137.2
75°	105.2	94.8	87.8	82.3	81.3	80.3	81.3	82.3	87.8	94.8	105.2
77.5°	77.8	70.2	65.0	60.9	60.1	59.2	60.1	60.9	65.0	70.2	77.8
80°	60.3	54.5	50.5	47.5	47.5	47.5	47.5	47.5	50.5	54.5	60.3
82.5°	43.0	39.2	37.2	35.7	35.7	35.7	35.7	35.7	37.2	39.2	43.0
85°	22.5	20.0	17.0	14.6	14.1	13.6	14.1	14.6	17.0	20.0	22.5
87.5°	4.6	3.4	3.0	2.7	2.7	2.7	2.7	2.7	3.0	3.4	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1428323

CATALOG NUMBER: SQ2W-PW1-0U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1187.2	1187.2	1187.2	1187.2
2.5°	1191.1	1192.7	1185.9	1179.0
5°	1190.6	1191.8	1183.3	1174.8
7.5°	1185.8	1186.2	1177.5	1168.9
10°	1181.5	1181.5	1172.5	1163.4
12.5°	1175.8	1175.1	1165.7	1156.2
15°	1163.1	1160.9	1150.9	1140.8
17.5°	1145.1	1143.1	1133.0	1123.0
20°	1131.8	1130.4	1120.4	1110.3
22.5°	1114.0	1113.9	1103.1	1092.2
25°	1081.3	1086.2	1075.6	1065.1
27.5°	1037.7	1050.5	1042.0	1033.4
30°	1003.6	1023.9	1017.3	1010.8
32.5°	965.7	992.3	989.8	987.3
35°	904.1	939.6	944.1	948.6
37.5°	836.1	876.0	889.5	902.9
40°	788.4	831.3	850.4	869.5
42.5°	740.5	784.5	808.5	832.4
45°	669.0	714.8	743.0	771.1
47.5°	600.5	646.3	674.2	702.1
50°	554.4	598.1	625.3	652.4
52.5°	511.0	553.1	577.4	601.7
55°	446.6	486.3	509.4	532.5
57.5°	385.6	421.3	441.3	461.3
60°	346.7	380.9	398.5	416.1
62.5°	308.7	341.5	357.1	372.7
65°	257.4	284.4	296.0	307.5
67.5°	211.1	231.4	237.8	244.2
70°	182.8	199.5	201.5	203.5
72.5°	156.0	169.8	169.0	168.2
75°	118.7	127.9	123.9	119.8
77.5°	87.7	93.7	87.7	81.6
80°	67.8	72.0	66.0	59.9
82.5°	48.5	51.5	46.7	41.8
85°	24.5	25.4	22.9	20.4
87.5°	6.6	7.8	6.6	5.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428323
 CATALOG NUMBER: SQ2W-PW1-0U-050D-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	21.10	22.60	21.46	22.91	23.23	17.34	18.85	17.71	19.16	19.47
	3H	22.44	23.79	22.82	24.12	24.48	18.66	20.01	19.04	20.33	20.70
	4H	22.88	24.14	23.28	24.49	24.87	19.19	20.46	19.59	20.80	21.18
	6H	23.09	24.25	23.50	24.62	25.01	19.53	20.70	19.94	21.06	21.46
	8H	23.15	24.26	23.58	24.65	25.05	19.66	20.77	20.09	21.16	21.56
	12H	23.17	24.23	23.60	24.61	25.04	19.71	20.77	20.14	21.16	21.58
4H	2H	21.30	22.56	21.70	22.91	23.29	18.23	19.49	18.63	19.84	20.22
	3H	22.90	23.94	23.31	24.34	24.74	19.73	20.77	20.14	21.17	21.58
	4H	23.47	24.40	23.90	24.82	25.26	20.33	21.27	20.76	21.69	22.13
	6H	23.81	24.62	24.27	25.07	25.53	20.75	21.56	21.21	22.01	22.47
	8H	23.91	24.67	24.38	25.12	25.59	20.91	21.67	21.37	22.12	22.58
	12H	23.96	24.64	24.45	25.12	25.59	20.98	21.66	21.46	22.14	22.61
8H	4H	23.55	24.31	24.01	24.75	25.22	20.72	21.48	21.18	21.92	22.39
	6H	23.99	24.62	24.49	25.11	25.59	21.23	21.86	21.73	22.35	22.83
	8H	24.16	24.73	24.68	25.24	25.73	21.45	22.02	21.97	22.53	23.02
	12H	24.27	24.77	24.78	25.26	25.83	21.56	22.06	22.07	22.55	23.12
12H	4H	23.54	24.21	24.02	24.69	25.17	20.77	21.45	21.25	21.92	22.40
	6H	23.99	24.55	24.50	25.06	25.55	21.31	21.87	21.82	22.38	22.87
	8H	24.20	24.70	24.71	25.19	25.76	21.58	22.08	22.09	22.57	23.14