

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: P1427987

Luminaire Tested: SQ2W-PP3-0U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427987
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PP3-0U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE PRISM 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

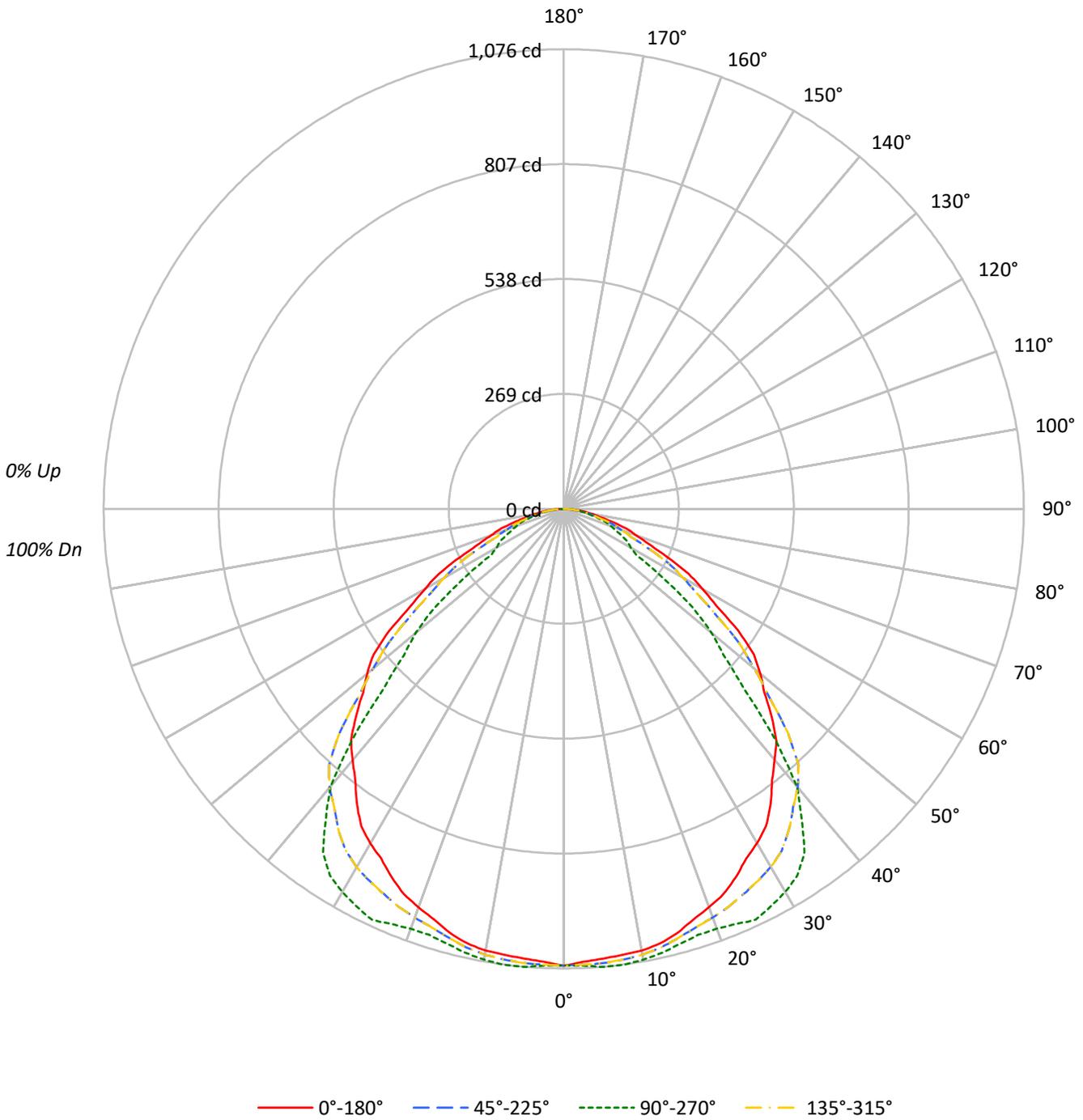
Lumens per Lamp: N/A
Luminaire Lumens: 2693.8 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1427987

CATALOG NUMBER: SQ2W-PP3-0U-050D-L830-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1427987

CATALOG NUMBER: SQ2W-PP3-OU-050D-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87				87
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74				74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48				48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17269	17269	17269	17269
5°	17134	17445	17134	17445
10°	17221	17573	17221	17573
15°	17180	17614	17180	17614
20°	17056	17970	17056	17970
25°	16960	18914	16960	18914
30°	16863	19309	16863	19309
35°	16625	19343	16625	19343
40°	16180	17873	16180	17873
45°	15696	13606	15696	13606
50°	15081	11331	15081	11331
55°	14035	8146	14035	8146
60°	12083	5841	12083	5841
65°	10193	5746	10193	5746
70°	8488	5500	8488	5500
75°	7193	5146	7193	5146
80°	6099	4621	6099	4621
85°	4816	2519	4816	2519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 17171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.8
10°-20°	294.8	10.9
20°-30°	461.8	17.1
30°-40°	569.6	21.1
40°-50°	536.3	19.9
50°-60°	379.8	14.1
60°-70°	216.4	8.0
70°-80°	107.1	4.0
80°-90°	26.2	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°	858.4	31.9
0°-40°	1428.0	53.0
0°-60°	2344.1	87.0
0°-90°	2693.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1070	1070	1070	1070	1070	
5°	1057	1076	1057	1076	1057	101
15°	1028	1054	1028	1054	1028	290
25°	952	1062	952	1062	952	438
35°	844	981	844	981	844	526
45°	687	596	687	596	687	529
55°	499	289	499	289	499	440
65°	267	150	267	150	267	268
75°	115	82	115	82	115	125
85°	26	14	26	14	26	32
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°	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6
2.5°	1061.5	1068.3	1075.1	1073.5	1069.1	1067.3	1068.1	1068.9	1069.7	1070.5	1069.7
5°	1057.2	1065.7	1074.2	1073.0	1068.5	1066.7	1067.7	1069.3	1072.9	1076.4	1072.9
7.5°	1053.1	1061.8	1070.6	1069.4	1065.0	1063.7	1065.4	1067.7	1072.1	1076.4	1072.1
10°	1050.4	1057.9	1065.5	1064.3	1060.3	1059.5	1062.1	1064.8	1068.3	1071.9	1068.3
12.5°	1042.2	1049.4	1056.5	1055.6	1052.0	1051.8	1055.1	1058.4	1061.5	1064.6	1061.5
15°	1027.8	1034.3	1040.8	1041.0	1038.9	1040.2	1044.7	1048.7	1051.3	1053.8	1051.3
17.5°	1008.1	1016.0	1024.0	1025.8	1025.6	1028.7	1035.1	1040.6	1043.2	1045.9	1043.2
20°	992.7	1002.3	1011.8	1014.9	1016.0	1020.5	1028.5	1035.8	1040.8	1045.9	1040.8
22.5°	976.4	987.6	998.7	1002.9	1004.7	1011.6	1023.7	1034.9	1043.5	1052.2	1043.5
25°	952.0	963.1	974.1	982.2	989.2	1001.5	1019.1	1035.6	1048.6	1061.7	1048.6
27.5°	923.5	934.5	945.4	959.2	974.0	991.3	1011.1	1028.5	1038.9	1049.2	1038.9
30°	904.5	915.1	925.6	941.5	959.0	978.1	998.7	1016.6	1026.1	1035.7	1026.1
32.5°	881.0	892.0	902.9	919.7	938.5	959.0	981.3	1000.1	1008.8	1017.6	1008.8
35°	843.5	854.0	864.6	884.2	906.8	929.6	952.8	971.4	976.4	981.4	976.4
37.5°	800.3	812.2	824.2	846.2	871.5	890.7	903.6	913.4	913.7	914.0	913.7
40°	767.7	783.3	798.9	820.9	845.0	858.3	860.8	861.1	854.5	848.0	854.5
42.5°	736.1	756.1	776.1	793.7	810.6	814.1	804.1	789.4	760.4	731.3	760.4
45°	687.4	711.1	734.7	745.5	752.0	729.9	679.1	636.1	616.0	595.9	616.0
47.5°	635.7	659.0	682.3	679.3	667.5	634.1	578.9	534.0	520.2	506.3	520.2
50°	600.4	622.5	644.6	628.6	600.0	562.3	515.6	477.3	464.2	451.1	464.2
52.5°	560.6	580.3	600.0	575.9	537.2	497.5	456.8	421.3	401.4	381.5	401.4
55°	498.6	512.2	525.8	499.4	459.7	416.0	368.2	327.6	308.5	289.4	308.5
57.5°	424.0	433.5	443.1	422.3	391.5	348.0	291.9	244.5	223.1	201.7	223.1
60°	374.2	381.8	389.3	370.5	342.8	301.4	246.1	202.0	191.5	180.9	191.5
62.5°	329.0	335.8	342.5	322.8	294.4	257.4	211.7	176.6	172.9	169.1	172.9
65°	266.8	273.4	279.9	259.3	229.6	200.8	172.6	151.4	150.9	150.4	150.9
67.5°	212.3	219.5	226.6	207.2	179.0	157.6	143.1	132.1	131.5	130.9	131.5
70°	179.8	187.3	194.8	176.8	150.1	132.8	124.7	118.5	117.5	116.5	117.5
72.5°	152.6	159.8	166.9	151.1	127.7	113.4	108.2	104.1	103.5	102.9	103.5
75°	115.3	120.9	126.4	114.9	97.9	88.1	85.6	83.5	83.0	82.5	83.0
77.5°	83.7	87.2	90.7	83.2	72.1	65.8	64.5	63.4	62.9	62.4	62.9
80°	65.6	67.1	68.6	63.3	55.8	51.8	51.3	50.8	50.3	49.7	50.3
82.5°	49.3	48.8	48.3	45.2	41.3	39.1	38.6	38.0	37.1	36.2	37.1
85°	26.0	25.0	24.0	23.0	22.0	20.5	18.5	16.6	15.1	13.6	15.1
87.5°	8.1	8.1	8.1	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



TEST NUMBER: P1427987

CATALOG NUMBER: SQ2W-PP3-OU-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6
2.5°	1068.9	1068.1	1067.3	1069.1	1073.5	1075.1	1068.3	1061.5	1068.3	1075.1	1073.5
5°	1069.3	1067.7	1066.7	1068.5	1073.0	1074.2	1065.7	1057.2	1065.7	1074.2	1073.0
7.5°	1067.7	1065.4	1063.7	1065.0	1069.4	1070.6	1061.8	1053.1	1061.8	1070.6	1069.4
10°	1064.8	1062.1	1059.5	1060.3	1064.3	1065.5	1057.9	1050.4	1057.9	1065.5	1064.3
12.5°	1058.4	1055.1	1051.8	1052.0	1055.6	1056.5	1049.4	1042.2	1049.4	1056.5	1055.6
15°	1048.7	1044.7	1040.2	1038.9	1041.0	1040.8	1034.3	1027.8	1034.3	1040.8	1041.0
17.5°	1040.6	1035.1	1028.7	1025.6	1025.8	1024.0	1016.0	1008.1	1016.0	1024.0	1025.8
20°	1035.8	1028.5	1020.5	1016.0	1014.9	1011.8	1002.3	992.7	1002.3	1011.8	1014.9
22.5°	1034.9	1023.7	1011.6	1004.7	1002.9	998.7	987.6	976.4	987.6	998.7	1002.9
25°	1035.6	1019.1	1001.5	989.2	982.2	974.1	963.1	952.0	963.1	974.1	982.2
27.5°	1028.5	1011.1	991.3	974.0	959.2	945.4	934.5	923.5	934.5	945.4	959.2
30°	1016.6	998.7	978.1	959.0	941.5	925.6	915.1	904.5	915.1	925.6	941.5
32.5°	1000.1	981.3	959.0	938.5	919.7	902.9	892.0	881.0	892.0	902.9	919.7
35°	971.4	952.8	929.6	906.8	884.2	864.6	854.0	843.5	854.0	864.6	884.2
37.5°	913.4	903.6	890.7	871.5	846.2	824.2	812.2	800.3	812.2	824.2	846.2
40°	861.1	860.8	858.3	845.0	820.9	798.9	783.3	767.7	783.3	798.9	820.9
42.5°	789.4	804.1	814.1	810.6	793.7	776.1	756.1	736.1	756.1	776.1	793.7
45°	636.1	679.1	729.9	752.0	745.5	734.7	711.1	687.4	711.1	734.7	745.5
47.5°	534.0	578.9	634.1	667.5	679.3	682.3	659.0	635.7	659.0	682.3	679.3
50°	477.3	515.6	562.3	600.0	628.6	644.6	622.5	600.4	622.5	644.6	628.6
52.5°	421.3	456.8	497.5	537.2	575.9	600.0	580.3	560.6	580.3	600.0	575.9
55°	327.6	368.2	416.0	459.7	499.4	525.8	512.2	498.6	512.2	525.8	499.4
57.5°	244.5	291.9	348.0	391.5	422.3	443.1	433.5	424.0	433.5	443.1	422.3
60°	202.0	246.1	301.4	342.8	370.5	389.3	381.8	374.2	381.8	389.3	370.5
62.5°	176.6	211.7	257.4	294.4	322.8	342.5	335.8	329.0	335.8	342.5	322.8
65°	151.4	172.6	200.8	229.6	259.3	279.9	273.4	266.8	273.4	279.9	259.3
67.5°	132.1	143.1	157.6	179.0	207.2	226.6	219.5	212.3	219.5	226.6	207.2
70°	118.5	124.7	132.8	150.1	176.8	194.8	187.3	179.8	187.3	194.8	176.8
72.5°	104.1	108.2	113.4	127.7	151.1	166.9	159.8	152.6	159.8	166.9	151.1
75°	83.5	85.6	88.1	97.9	114.9	126.4	120.9	115.3	120.9	126.4	114.9
77.5°	63.4	64.5	65.8	72.1	83.2	90.7	87.2	83.7	87.2	90.7	83.2
80°	50.8	51.3	51.8	55.8	63.3	68.6	67.1	65.6	67.1	68.6	63.3
82.5°	38.0	38.6	39.1	41.3	45.2	48.3	48.8	49.3	48.8	48.3	45.2
85°	16.6	18.5	20.5	22.0	23.0	24.0	25.0	26.0	25.0	24.0	23.0
87.5°	2.7	3.0	3.4	4.6	6.6	8.1	8.1	8.1	8.1	8.1	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



TEST NUMBER: P1427987

CATALOG NUMBER: SQ2W-PP3-0U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6	1069.6
2.5°	1069.1	1067.3	1068.1	1068.9	1069.7	1070.5	1069.7	1068.9	1068.1	1067.3	1069.1
5°	1068.5	1066.7	1067.7	1069.3	1072.9	1076.4	1072.9	1069.3	1067.7	1066.7	1068.5
7.5°	1065.0	1063.7	1065.4	1067.7	1072.1	1076.4	1072.1	1067.7	1065.4	1063.7	1065.0
10°	1060.3	1059.5	1062.1	1064.8	1068.3	1071.9	1068.3	1064.8	1062.1	1059.5	1060.3
12.5°	1052.0	1051.8	1055.1	1058.4	1061.5	1064.6	1061.5	1058.4	1055.1	1051.8	1052.0
15°	1038.9	1040.2	1044.7	1048.7	1051.3	1053.8	1051.3	1048.7	1044.7	1040.2	1038.9
17.5°	1025.6	1028.7	1035.1	1040.6	1043.2	1045.9	1043.2	1040.6	1035.1	1028.7	1025.6
20°	1016.0	1020.5	1028.5	1035.8	1040.8	1045.9	1040.8	1035.8	1028.5	1020.5	1016.0
22.5°	1004.7	1011.6	1023.7	1034.9	1043.5	1052.2	1043.5	1034.9	1023.7	1011.6	1004.7
25°	989.2	1001.5	1019.1	1035.6	1048.6	1061.7	1048.6	1035.6	1019.1	1001.5	989.2
27.5°	974.0	991.3	1011.1	1028.5	1038.9	1049.2	1038.9	1028.5	1011.1	991.3	974.0
30°	959.0	978.1	998.7	1016.6	1026.1	1035.7	1026.1	1016.6	998.7	978.1	959.0
32.5°	938.5	959.0	981.3	1000.1	1008.8	1017.6	1008.8	1000.1	981.3	959.0	938.5
35°	906.8	929.6	952.8	971.4	976.4	981.4	976.4	971.4	952.8	929.6	906.8
37.5°	871.5	890.7	903.6	913.4	913.7	914.0	913.7	913.4	903.6	890.7	871.5
40°	845.0	858.3	860.8	861.1	854.5	848.0	854.5	861.1	860.8	858.3	845.0
42.5°	810.6	814.1	804.1	789.4	760.4	731.3	760.4	789.4	804.1	814.1	810.6
45°	752.0	729.9	679.1	636.1	616.0	595.9	616.0	636.1	679.1	729.9	752.0
47.5°	667.5	634.1	578.9	534.0	520.2	506.3	520.2	534.0	578.9	634.1	667.5
50°	600.0	562.3	515.6	477.3	464.2	451.1	464.2	477.3	515.6	562.3	600.0
52.5°	537.2	497.5	456.8	421.3	401.4	381.5	401.4	421.3	456.8	497.5	537.2
55°	459.7	416.0	368.2	327.6	308.5	289.4	308.5	327.6	368.2	416.0	459.7
57.5°	391.5	348.0	291.9	244.5	223.1	201.7	223.1	244.5	291.9	348.0	391.5
60°	342.8	301.4	246.1	202.0	191.5	180.9	191.5	202.0	246.1	301.4	342.8
62.5°	294.4	257.4	211.7	176.6	172.9	169.1	172.9	176.6	211.7	257.4	294.4
65°	229.6	200.8	172.6	151.4	150.9	150.4	150.9	151.4	172.6	200.8	229.6
67.5°	179.0	157.6	143.1	132.1	131.5	130.9	131.5	132.1	143.1	157.6	179.0
70°	150.1	132.8	124.7	118.5	117.5	116.5	117.5	118.5	124.7	132.8	150.1
72.5°	127.7	113.4	108.2	104.1	103.5	102.9	103.5	104.1	108.2	113.4	127.7
75°	97.9	88.1	85.6	83.5	83.0	82.5	83.0	83.5	85.6	88.1	97.9
77.5°	72.1	65.8	64.5	63.4	62.9	62.4	62.9	63.4	64.5	65.8	72.1
80°	55.8	51.8	51.3	50.8	50.3	49.7	50.3	50.8	51.3	51.8	55.8
82.5°	41.3	39.1	38.6	38.0	37.1	36.2	37.1	38.0	38.6	39.1	41.3
85°	22.0	20.5	18.5	16.6	15.1	13.6	15.1	16.6	18.5	20.5	22.0
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: P1427987

CATALOG NUMBER: SQ2W-PP3-OU-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1069.6	1069.6	1069.6	1069.6
2.5°	1073.5	1075.1	1068.3	1061.5
5°	1073.0	1074.2	1065.7	1057.2
7.5°	1069.4	1070.6	1061.8	1053.1
10°	1064.3	1065.5	1057.9	1050.4
12.5°	1055.6	1056.5	1049.4	1042.2
15°	1041.0	1040.8	1034.3	1027.8
17.5°	1025.8	1024.0	1016.0	1008.1
20°	1014.9	1011.8	1002.3	992.7
22.5°	1002.9	998.7	987.6	976.4
25°	982.2	974.1	963.1	952.0
27.5°	959.2	945.4	934.5	923.5
30°	941.5	925.6	915.1	904.5
32.5°	919.7	902.9	892.0	881.0
35°	884.2	864.6	854.0	843.5
37.5°	846.2	824.2	812.2	800.3
40°	820.9	798.9	783.3	767.7
42.5°	793.7	776.1	756.1	736.1
45°	745.5	734.7	711.1	687.4
47.5°	679.3	682.3	659.0	635.7
50°	628.6	644.6	622.5	600.4
52.5°	575.9	600.0	580.3	560.6
55°	499.4	525.8	512.2	498.6
57.5°	422.3	443.1	433.5	424.0
60°	370.5	389.3	381.8	374.2
62.5°	322.8	342.5	335.8	329.0
65°	259.3	279.9	273.4	266.8
67.5°	207.2	226.6	219.5	212.3
70°	176.8	194.8	187.3	179.8
72.5°	151.1	166.9	159.8	152.6
75°	114.9	126.4	120.9	115.3
77.5°	83.2	90.7	87.2	83.7
80°	63.3	68.6	67.1	65.6
82.5°	45.2	48.3	48.8	49.3
85°	23.0	24.0	25.0	26.0
87.5°	6.6	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427987
 CATALOG NUMBER: SQ2W-PP3-OU-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	21.25	22.78	21.62	23.09	23.41	17.02	18.55	17.39	18.86	19.18
	3H	22.37	23.73	22.74	24.06	24.42	18.39	19.75	18.76	20.08	20.44
	4H	22.76	24.04	23.16	24.39	24.77	18.97	20.25	19.37	20.60	20.98
	6H	22.99	24.17	23.40	24.53	24.93	19.37	20.55	19.78	20.91	21.30
	8H	23.07	24.19	23.50	24.58	24.98	19.51	20.64	19.94	21.03	21.43
	12H	23.11	24.18	23.54	24.57	25.00	19.57	20.64	20.00	21.02	21.45
4H	2H	21.45	22.73	21.85	23.08	23.46	18.01	19.29	18.41	19.64	20.02
	3H	22.81	23.86	23.22	24.26	24.66	19.50	20.55	19.91	20.95	21.35
	4H	23.34	24.29	23.77	24.70	25.14	20.14	21.09	20.58	21.51	21.94
	6H	23.69	24.51	24.15	24.96	25.42	20.62	21.45	21.08	21.89	22.35
	8H	23.81	24.58	24.28	25.02	25.49	20.81	21.57	21.27	22.02	22.49
	12H	23.88	24.57	24.37	25.05	25.52	20.88	21.57	21.37	22.05	22.52
8H	4H	23.41	24.17	23.87	24.62	25.09	20.50	21.27	20.96	21.71	22.18
	6H	23.84	24.48	24.34	24.97	25.44	21.08	21.72	21.58	22.21	22.68
	8H	24.02	24.59	24.54	25.10	25.59	21.33	21.90	21.84	22.41	22.90
	12H	24.14	24.65	24.65	25.14	25.71	21.46	21.96	21.97	22.46	23.02
12H	4H	23.39	24.08	23.88	24.56	25.03	20.54	21.23	21.02	21.70	22.18
	6H	23.83	24.41	24.35	24.92	25.40	21.15	21.72	21.66	22.23	22.72
	8H	24.06	24.56	24.57	25.06	25.62	21.45	21.96	21.96	22.45	23.01