

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: P1428328

Luminaire Tested: SQ2W-PW1-0U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428328
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-L940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

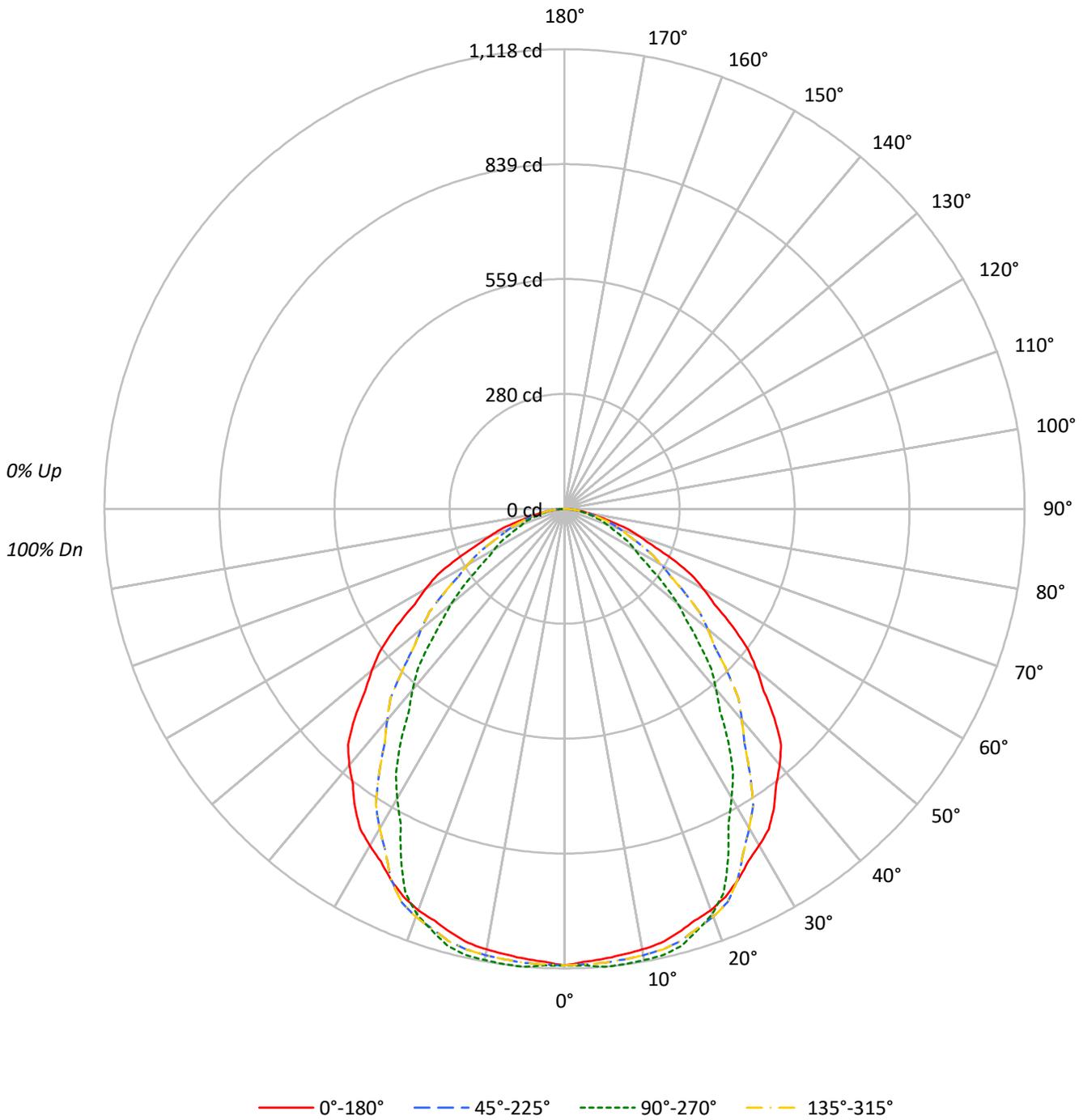
Lumens per Lamp: N/A
Luminaire Lumens: 2464.5 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (A_{in}): 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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Luminous Intensity Polar Plot





TEST NUMBER: P1428328

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17933	17933	17933	17933
5°	17812	18121	17812	18121
10°	17846	18278	17846	18278
15°	17840	18388	17840	18388
20°	17847	18029	17847	18029
25°	17751	16753	17751	16753
30°	17631	15146	17631	15146
35°	17493	13677	17493	13677
40°	17144	12083	17144	12083
45°	16472	10554	16472	10554
50°	15330	9032	15330	9032
55°	14024	7324	14024	7324
60°	12571	6319	12571	6319
65°	10991	5616	10991	5616
70°	8988	5094	8988	5094
75°	6993	4685	6993	4685
80°	5216	4128	5216	4128
85°	3520	2353	3520	2353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	4.3
10°-20°	306.4	12.4
20°-30°	451.0	18.3
30°-40°	493.1	20.0
40°-50°	442.3	17.9
50°-60°	329.9	13.4
60°-70°	208.5	8.5
70°-80°	103.3	4.2
80°-90°	24.2	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°	863.2	35.0
0°-40°	1356.2	55.0
0°-60°	2128.5	86.4
0°-90°	2464.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1111	1111	1111	1111	1111	
5°	1099	1118	1099	1118	1099	105
15°	1067	1100	1067	1100	1067	301
25°	996	940	996	940	996	459
35°	888	694	888	694	888	553
45°	721	462	721	462	721	553
55°	498	260	498	260	498	445
65°	288	147	288	147	288	285
75°	112	75	112	75	112	124
85°	19	13	19	13	19	25
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°	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1103.1	1109.4	1115.8	1114.3	1110.2	1108.3	1108.7	1109.3	1110.4	1111.5	1110.4
5°	1099.0	1107.0	1115.0	1113.8	1109.6	1107.7	1108.2	1109.6	1113.8	1118.1	1113.8
7.5°	1093.5	1101.6	1109.7	1109.3	1106.1	1105.3	1106.9	1109.2	1113.3	1117.4	1113.3
10°	1088.5	1096.9	1105.4	1105.4	1102.6	1102.3	1104.7	1107.4	1111.1	1114.9	1111.1
12.5°	1081.7	1090.5	1099.4	1100.0	1098.0	1098.3	1101.0	1104.0	1107.8	1111.5	1107.8
15°	1067.3	1076.7	1086.1	1088.1	1087.6	1089.0	1092.3	1095.4	1097.7	1100.1	1097.7
17.5°	1050.6	1060.0	1069.4	1071.2	1070.6	1070.7	1071.5	1072.4	1073.6	1074.7	1073.6
20°	1038.7	1048.1	1057.5	1058.8	1057.4	1055.1	1051.8	1049.3	1049.3	1049.3	1049.3
22.5°	1021.8	1032.0	1042.1	1042.2	1038.9	1032.8	1023.9	1016.4	1013.4	1010.4	1013.4
25°	996.4	1006.3	1016.2	1011.6	1002.2	988.3	970.0	954.5	947.4	940.4	947.4
27.5°	966.8	974.8	982.8	970.8	952.2	929.9	903.8	881.9	872.1	862.3	872.1
30°	945.7	951.8	957.9	939.0	911.7	883.7	855.0	831.2	821.8	812.4	821.8
32.5°	923.7	926.0	928.4	903.4	869.4	837.5	807.6	782.8	772.6	762.4	772.6
35°	887.5	883.2	879.0	845.9	803.1	766.7	736.6	711.8	702.8	693.9	702.8
37.5°	844.7	832.1	819.5	782.2	736.6	698.0	666.5	640.4	630.6	620.7	630.6
40°	813.4	795.6	777.7	737.6	690.1	650.7	619.2	593.1	583.2	573.3	583.2
42.5°	778.7	756.4	734.0	692.8	645.3	605.8	574.3	548.1	537.9	527.6	537.9
45°	721.4	695.1	668.8	625.9	577.4	537.9	507.4	482.0	472.1	462.2	472.1
47.5°	656.9	630.7	604.6	561.8	513.5	474.5	444.9	420.6	412.1	403.6	412.1
50°	610.3	585.0	559.6	518.7	472.6	434.7	405.1	380.3	370.0	359.6	370.0
52.5°	562.9	540.2	517.4	478.0	433.1	395.4	365.1	338.8	324.7	310.6	324.7
55°	498.2	476.6	455.0	417.8	375.5	337.4	303.6	276.2	268.2	260.2	268.2
57.5°	431.6	412.9	394.2	360.8	322.5	288.0	257.3	232.5	226.0	219.4	226.0
60°	389.3	372.8	356.4	324.4	287.2	255.7	229.9	208.9	202.3	195.7	202.3
62.5°	348.6	334.1	319.5	288.8	252.8	224.5	203.9	187.1	181.7	176.2	181.7
65°	287.7	276.9	266.1	240.8	210.7	187.2	170.3	156.4	151.7	147.0	151.7
67.5°	228.5	222.5	216.4	197.5	174.3	155.3	140.4	128.5	125.4	122.3	125.4
70°	190.4	188.5	186.6	171.0	150.8	134.6	122.3	112.6	110.2	107.9	110.2
72.5°	157.4	158.1	158.9	145.9	128.3	114.7	105.1	97.6	96.0	94.4	96.0
75°	112.1	115.9	119.6	111.1	98.4	88.7	82.2	77.0	76.0	75.1	76.0
77.5°	76.4	82.0	87.7	82.1	72.8	65.7	60.8	56.9	56.2	55.4	56.2
80°	56.1	61.7	67.3	63.5	56.4	51.0	47.2	44.4	44.4	44.4	44.4
82.5°	39.1	43.7	48.2	45.4	40.2	36.7	34.8	33.4	33.4	33.4	33.4
85°	19.0	21.4	23.7	22.9	21.0	18.7	15.9	13.6	13.2	12.7	13.2
87.5°	5.1	6.2	7.3	6.2	4.3	3.2	2.8	2.5	2.5	2.5	2.5
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°	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1109.3	1108.7	1108.3	1110.2	1114.3	1115.8	1109.4	1103.1	1109.4	1115.8	1114.3
5°	1109.6	1108.2	1107.7	1109.6	1113.8	1115.0	1107.0	1099.0	1107.0	1115.0	1113.8
7.5°	1109.2	1106.9	1105.3	1106.1	1109.3	1109.7	1101.6	1093.5	1101.6	1109.7	1109.3
10°	1107.4	1104.7	1102.3	1102.6	1105.4	1105.4	1096.9	1088.5	1096.9	1105.4	1105.4
12.5°	1104.0	1101.0	1098.3	1098.0	1100.0	1099.4	1090.5	1081.7	1090.5	1099.4	1100.0
15°	1095.4	1092.3	1089.0	1087.6	1088.1	1086.1	1076.7	1067.3	1076.7	1086.1	1088.1
17.5°	1072.4	1071.5	1070.7	1070.6	1071.2	1069.4	1060.0	1050.6	1060.0	1069.4	1071.2
20°	1049.3	1051.8	1055.1	1057.4	1058.8	1057.5	1048.1	1038.7	1048.1	1057.5	1058.8
22.5°	1016.4	1023.9	1032.8	1038.9	1042.2	1042.1	1032.0	1021.8	1032.0	1042.1	1042.2
25°	954.5	970.0	988.3	1002.2	1011.6	1016.2	1006.3	996.4	1006.3	1016.2	1011.6
27.5°	881.9	903.8	929.9	952.2	970.8	982.8	974.8	966.8	974.8	982.8	970.8
30°	831.2	855.0	883.7	911.7	939.0	957.9	951.8	945.7	951.8	957.9	939.0
32.5°	782.8	807.6	837.5	869.4	903.4	928.4	926.0	923.7	926.0	928.4	903.4
35°	711.8	736.6	766.7	803.1	845.9	879.0	883.2	887.5	883.2	879.0	845.9
37.5°	640.4	666.5	698.0	736.6	782.2	819.5	832.1	844.7	832.1	819.5	782.2
40°	593.1	619.2	650.7	690.1	737.6	777.7	795.6	813.4	795.6	777.7	737.6
42.5°	548.1	574.3	605.8	645.3	692.8	734.0	756.4	778.7	756.4	734.0	692.8
45°	482.0	507.4	537.9	577.4	625.9	668.8	695.1	721.4	695.1	668.8	625.9
47.5°	420.6	444.9	474.5	513.5	561.8	604.6	630.7	656.9	630.7	604.6	561.8
50°	380.3	405.1	434.7	472.6	518.7	559.6	585.0	610.3	585.0	559.6	518.7
52.5°	338.8	365.1	395.4	433.1	478.0	517.4	540.2	562.9	540.2	517.4	478.0
55°	276.2	303.6	337.4	375.5	417.8	455.0	476.6	498.2	476.6	455.0	417.8
57.5°	232.5	257.3	288.0	322.5	360.8	394.2	412.9	431.6	412.9	394.2	360.8
60°	208.9	229.9	255.7	287.2	324.4	356.4	372.8	389.3	372.8	356.4	324.4
62.5°	187.1	203.9	224.5	252.8	288.8	319.5	334.1	348.6	334.1	319.5	288.8
65°	156.4	170.3	187.2	210.7	240.8	266.1	276.9	287.7	276.9	266.1	240.8
67.5°	128.5	140.4	155.3	174.3	197.5	216.4	222.5	228.5	222.5	216.4	197.5
70°	112.6	122.3	134.6	150.8	171.0	186.6	188.5	190.4	188.5	186.6	171.0
72.5°	97.6	105.1	114.7	128.3	145.9	158.9	158.1	157.4	158.1	158.9	145.9
75°	77.0	82.2	88.7	98.4	111.1	119.6	115.9	112.1	115.9	119.6	111.1
77.5°	56.9	60.8	65.7	72.8	82.1	87.7	82.0	76.4	82.0	87.7	82.1
80°	44.4	47.2	51.0	56.4	63.5	67.3	61.7	56.1	61.7	67.3	63.5
82.5°	33.4	34.8	36.7	40.2	45.4	48.2	43.7	39.1	43.7	48.2	45.4
85°	13.6	15.9	18.7	21.0	22.9	23.7	21.4	19.0	21.4	23.7	22.9
87.5°	2.5	2.8	3.2	4.3	6.2	7.3	6.2	5.1	6.2	7.3	6.2
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°	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1110.2	1108.3	1108.7	1109.3	1110.4	1111.5	1110.4	1109.3	1108.7	1108.3	1110.2
5°	1109.6	1107.7	1108.2	1109.6	1113.8	1118.1	1113.8	1109.6	1108.2	1107.7	1109.6
7.5°	1106.1	1105.3	1106.9	1109.2	1113.3	1117.4	1113.3	1109.2	1106.9	1105.3	1106.1
10°	1102.6	1102.3	1104.7	1107.4	1111.1	1114.9	1111.1	1107.4	1104.7	1102.3	1102.6
12.5°	1098.0	1098.3	1101.0	1104.0	1107.8	1111.5	1107.8	1104.0	1101.0	1098.3	1098.0
15°	1087.6	1089.0	1092.3	1095.4	1097.7	1100.1	1097.7	1095.4	1092.3	1089.0	1087.6
17.5°	1070.6	1070.7	1071.5	1072.4	1073.6	1074.7	1073.6	1072.4	1071.5	1070.7	1070.6
20°	1057.4	1055.1	1051.8	1049.3	1049.3	1049.3	1049.3	1049.3	1051.8	1055.1	1057.4
22.5°	1038.9	1032.8	1023.9	1016.4	1013.4	1010.4	1013.4	1016.4	1023.9	1032.8	1038.9
25°	1002.2	988.3	970.0	954.5	947.4	940.4	947.4	954.5	970.0	988.3	1002.2
27.5°	952.2	929.9	903.8	881.9	872.1	862.3	872.1	881.9	903.8	929.9	952.2
30°	911.7	883.7	855.0	831.2	821.8	812.4	821.8	831.2	855.0	883.7	911.7
32.5°	869.4	837.5	807.6	782.8	772.6	762.4	772.6	782.8	807.6	837.5	869.4
35°	803.1	766.7	736.6	711.8	702.8	693.9	702.8	711.8	736.6	766.7	803.1
37.5°	736.6	698.0	666.5	640.4	630.6	620.7	630.6	640.4	666.5	698.0	736.6
40°	690.1	650.7	619.2	593.1	583.2	573.3	583.2	593.1	619.2	650.7	690.1
42.5°	645.3	605.8	574.3	548.1	537.9	527.6	537.9	548.1	574.3	605.8	645.3
45°	577.4	537.9	507.4	482.0	472.1	462.2	472.1	482.0	507.4	537.9	577.4
47.5°	513.5	474.5	444.9	420.6	412.1	403.6	412.1	420.6	444.9	474.5	513.5
50°	472.6	434.7	405.1	380.3	370.0	359.6	370.0	380.3	405.1	434.7	472.6
52.5°	433.1	395.4	365.1	338.8	324.7	310.6	324.7	338.8	365.1	395.4	433.1
55°	375.5	337.4	303.6	276.2	268.2	260.2	268.2	276.2	303.6	337.4	375.5
57.5°	322.5	288.0	257.3	232.5	226.0	219.4	226.0	232.5	257.3	288.0	322.5
60°	287.2	255.7	229.9	208.9	202.3	195.7	202.3	208.9	229.9	255.7	287.2
62.5°	252.8	224.5	203.9	187.1	181.7	176.2	181.7	187.1	203.9	224.5	252.8
65°	210.7	187.2	170.3	156.4	151.7	147.0	151.7	156.4	170.3	187.2	210.7
67.5°	174.3	155.3	140.4	128.5	125.4	122.3	125.4	128.5	140.4	155.3	174.3
70°	150.8	134.6	122.3	112.6	110.2	107.9	110.2	112.6	122.3	134.6	150.8
72.5°	128.3	114.7	105.1	97.6	96.0	94.4	96.0	97.6	105.1	114.7	128.3
75°	98.4	88.7	82.2	77.0	76.0	75.1	76.0	77.0	82.2	88.7	98.4
77.5°	72.8	65.7	60.8	56.9	56.2	55.4	56.2	56.9	60.8	65.7	72.8
80°	56.4	51.0	47.2	44.4	44.4	44.4	44.4	44.4	47.2	51.0	56.4
82.5°	40.2	36.7	34.8	33.4	33.4	33.4	33.4	33.4	34.8	36.7	40.2
85°	21.0	18.7	15.9	13.6	13.2	12.7	13.2	13.6	15.9	18.7	21.0
87.5°	4.3	3.2	2.8	2.5	2.5	2.5	2.5	2.5	2.8	3.2	4.3
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: P1428328

CATALOG NUMBER: SQ2W-PW1-0U-050D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1110.7	1110.7	1110.7	1110.7
2.5°	1114.3	1115.8	1109.4	1103.1
5°	1113.8	1115.0	1107.0	1099.0
7.5°	1109.3	1109.7	1101.6	1093.5
10°	1105.4	1105.4	1096.9	1088.5
12.5°	1100.0	1099.4	1090.5	1081.7
15°	1088.1	1086.1	1076.7	1067.3
17.5°	1071.2	1069.4	1060.0	1050.6
20°	1058.8	1057.5	1048.1	1038.7
22.5°	1042.2	1042.1	1032.0	1021.8
25°	1011.6	1016.2	1006.3	996.4
27.5°	970.8	982.8	974.8	966.8
30°	939.0	957.9	951.8	945.7
32.5°	903.4	928.4	926.0	923.7
35°	845.9	879.0	883.2	887.5
37.5°	782.2	819.5	832.1	844.7
40°	737.6	777.7	795.6	813.4
42.5°	692.8	734.0	756.4	778.7
45°	625.9	668.8	695.1	721.4
47.5°	561.8	604.6	630.7	656.9
50°	518.7	559.6	585.0	610.3
52.5°	478.0	517.4	540.2	562.9
55°	417.8	455.0	476.6	498.2
57.5°	360.8	394.2	412.9	431.6
60°	324.4	356.4	372.8	389.3
62.5°	288.8	319.5	334.1	348.6
65°	240.8	266.1	276.9	287.7
67.5°	197.5	216.4	222.5	228.5
70°	171.0	186.6	188.5	190.4
72.5°	145.9	158.9	158.1	157.4
75°	111.1	119.6	115.9	112.1
77.5°	82.1	87.7	82.0	76.4
80°	63.5	67.3	61.7	56.1
82.5°	45.4	48.2	43.7	39.1
85°	22.9	23.7	21.4	19.0
87.5°	6.2	7.3	6.2	5.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428328
 CATALOG NUMBER: SQ2W-PW1-0U-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	20.86	22.37	21.23	22.68	23.00	17.11	18.61	17.48	18.93	19.24
	3H	22.21	23.56	22.59	23.89	24.25	18.43	19.77	18.81	20.10	20.46
	4H	22.65	23.91	23.05	24.26	24.64	18.96	20.22	19.36	20.57	20.95
	6H	22.86	24.02	23.27	24.39	24.78	19.30	20.46	19.71	20.83	21.22
	8H	22.92	24.03	23.35	24.42	24.82	19.43	20.54	19.86	20.93	21.33
	12H	22.94	24.00	23.37	24.38	24.81	19.48	20.54	19.91	20.92	21.35
4H	2H	21.07	22.33	21.47	22.68	23.06	18.00	19.26	18.40	19.61	19.98
	3H	22.66	23.71	23.08	24.11	24.51	19.50	20.54	19.91	20.94	21.34
	4H	23.23	24.17	23.67	24.59	25.03	20.10	21.04	20.53	21.45	21.89
	6H	23.58	24.39	24.04	24.84	25.30	20.52	21.33	20.97	21.77	22.23
	8H	23.68	24.44	24.14	24.89	25.35	20.68	21.44	21.14	21.88	22.35
	12H	23.73	24.41	24.21	24.89	25.36	20.75	21.43	21.23	21.91	22.38
8H	4H	23.32	24.08	23.78	24.52	24.99	20.49	21.25	20.95	21.69	22.16
	6H	23.76	24.39	24.26	24.88	25.36	21.00	21.63	21.50	22.12	22.60
	8H	23.93	24.50	24.45	25.01	25.50	21.22	21.78	21.74	22.29	22.78
	12H	24.04	24.54	24.55	25.03	25.59	21.33	21.83	21.84	22.32	22.89
12H	4H	23.30	23.98	23.79	24.46	24.93	20.53	21.21	21.02	21.69	22.16
	6H	23.75	24.32	24.27	24.83	25.32	21.08	21.64	21.59	22.15	22.64
	8H	23.97	24.47	24.48	24.96	25.53	21.35	21.85	21.86	22.34	22.90