

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: P1428160

Luminaire Tested: SQ2W-PR1-0U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428160
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-PR1-0U-050D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE RIPPLE 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

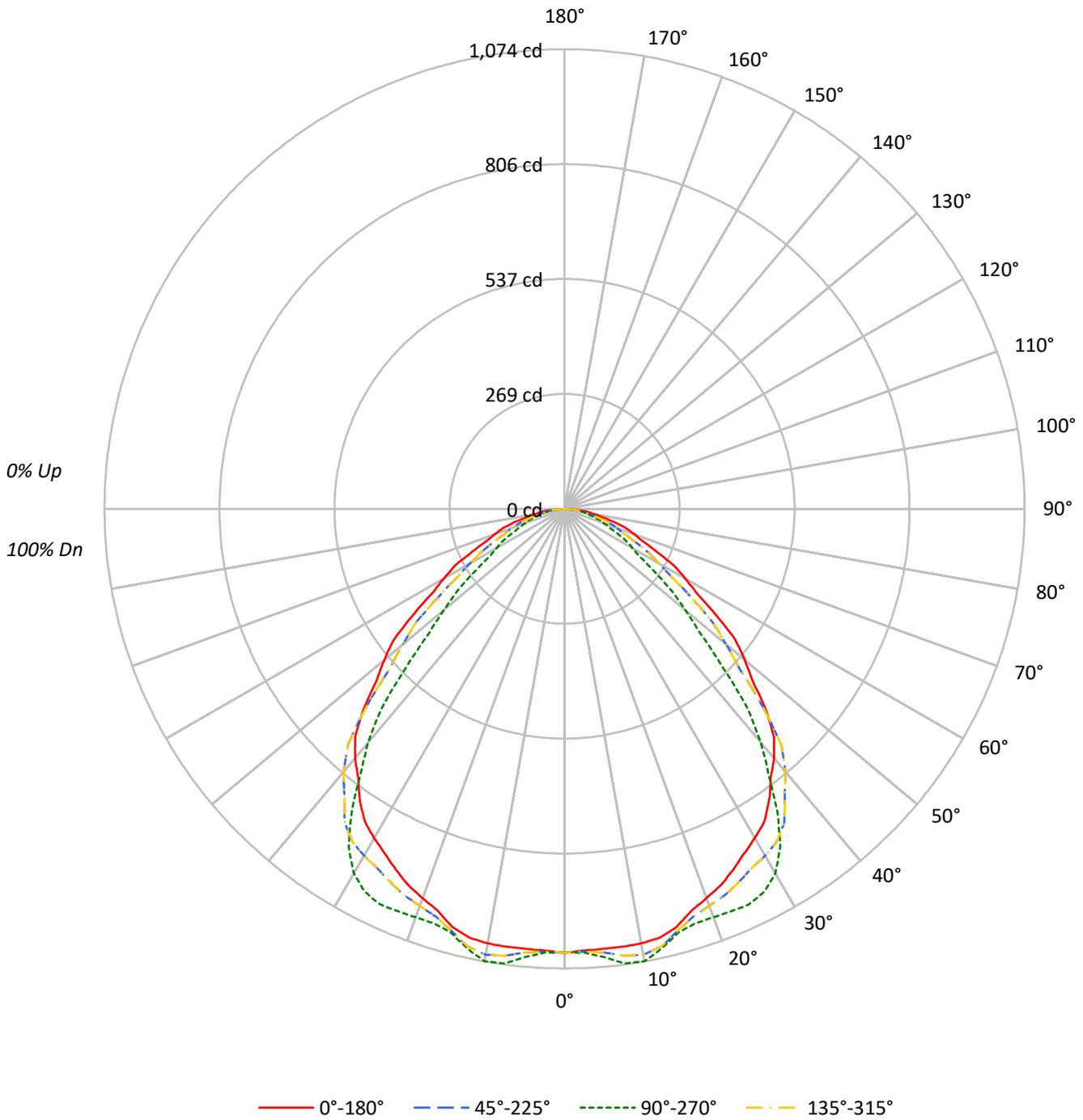
Lumens per Lamp: N/A
Luminaire Lumens: 2496.4 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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





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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	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	101	97	100	97	94	96	94	92	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65				65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
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	47	42	54	47	42	52	46	41	51	45	41	39				39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16754	16754	16754	16754
5°	16732	17040	16732	17040
10°	16908	17601	16908	17601
15°	16902	17133	16902	17133
20°	16630	17448	16630	17448
25°	16582	18166	16582	18166
30°	16565	18339	16565	18339
35°	16409	17075	16409	17075
40°	16029	15025	16029	15025
45°	15168	11882	15168	11882
50°	13790	9218	13790	9218
55°	12118	7175	12118	7175
60°	10485	5909	10485	5909
65°	9050	5173	9050	5173
70°	8138	4593	8138	4593
75°	7455	4223	7455	4223
80°	6490	4128	6490	4128
85°	4705	1964	4705	1964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 16285 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	4.0
10°-20°	290.1	11.6
20°-30°	448.4	18.0
30°-40°	539.3	21.6
40°-50°	484.3	19.4
50°-60°	324.5	13.0
60°-70°	188.8	7.6
70°-80°	97.0	3.9
80°-90°	23.9	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°	838.7	33.6
0°-40°	1378.0	55.2
0°-60°	2186.8	87.6
0°-90°	2496.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1038	1038	1038	1038	1038	
5°	1032	1051	1032	1051	1032	99
15°	1011	1025	1011	1025	1011	284
25°	931	1020	931	1020	931	429
35°	832	866	832	866	832	519
45°	664	520	664	520	664	508
55°	430	255	430	255	430	387
65°	237	135	237	135	237	240
75°	120	68	120	68	120	127
85°	25	11	25	11	25	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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1033.4	1039.1	1044.7	1042.2	1036.9	1034.5	1034.9	1035.4	1036.5	1037.7	1036.5
5°	1032.4	1040.4	1048.4	1046.5	1041.3	1039.2	1040.1	1042.0	1046.7	1051.4	1046.7
7.5°	1032.2	1043.6	1054.9	1055.8	1053.2	1053.2	1055.9	1059.5	1065.7	1071.9	1065.7
10°	1031.3	1045.0	1058.6	1060.6	1058.7	1058.0	1058.5	1060.5	1067.1	1073.6	1067.1
12.5°	1026.3	1042.1	1058.0	1056.4	1048.8	1044.8	1044.1	1044.5	1048.1	1051.6	1048.1
15°	1011.2	1030.0	1048.8	1041.2	1024.7	1017.2	1018.6	1020.3	1022.6	1025.0	1022.6
17.5°	984.8	1004.4	1024.1	1017.2	1001.5	996.2	1001.3	1006.3	1010.9	1015.5	1010.9
20°	967.9	987.1	1006.4	1001.7	989.0	986.0	992.5	999.5	1007.5	1015.5	1007.5
22.5°	952.6	971.9	991.2	988.2	977.7	977.1	986.3	996.0	1007.0	1018.0	1007.0
25°	930.8	947.8	964.7	965.0	959.9	965.0	980.6	995.2	1007.5	1019.7	1007.5
27.5°	908.0	918.0	927.9	934.5	940.0	953.2	974.1	992.0	1000.6	1009.1	1000.6
30°	888.5	895.1	901.7	913.9	928.0	944.2	962.6	977.1	980.4	983.7	980.4
32.5°	867.4	871.3	875.3	892.5	914.1	929.8	939.4	945.7	941.4	937.2	941.4
35°	832.5	835.8	839.1	861.0	889.2	899.6	892.1	884.2	875.3	866.3	875.3
37.5°	791.0	797.8	804.5	822.5	844.1	843.9	821.9	802.8	792.6	782.3	792.6
40°	760.5	771.8	783.1	795.1	807.3	797.0	764.1	736.4	724.7	712.9	724.7
42.5°	723.3	741.4	759.4	762.1	759.6	737.5	695.5	660.5	646.1	631.7	646.1
45°	664.3	688.7	713.2	699.2	672.4	636.2	590.6	552.4	536.4	520.4	536.4
47.5°	594.7	619.8	644.9	618.5	575.0	532.9	492.1	457.9	442.9	428.0	442.9
50°	549.0	569.2	589.4	559.6	513.0	470.7	432.6	400.0	383.5	367.0	383.5
52.5°	502.4	517.0	531.6	502.0	457.7	416.6	378.5	346.2	331.2	316.3	331.2
55°	430.5	438.0	445.6	418.2	379.2	341.5	305.3	275.6	265.3	254.9	265.3
57.5°	364.5	369.3	374.1	348.1	311.9	278.5	247.7	222.8	215.2	207.5	215.2
60°	324.7	328.0	331.3	305.0	268.8	238.7	214.7	195.2	189.1	183.0	189.1
62.5°	288.3	290.9	293.4	268.0	233.3	206.5	187.4	171.9	167.3	162.7	167.3
65°	236.9	239.3	241.6	220.0	190.4	168.3	153.7	142.0	138.7	135.4	138.7
67.5°	196.1	197.3	198.6	180.7	156.6	138.8	127.3	117.9	114.8	111.7	114.8
70°	172.4	172.9	173.4	157.6	136.5	120.7	110.4	102.0	99.7	97.3	99.7
72.5°	151.3	150.6	149.9	135.9	117.4	103.9	95.4	88.7	87.1	85.5	87.1
75°	119.5	118.1	116.7	105.1	90.0	79.7	74.0	69.6	68.6	67.7	68.6
77.5°	89.3	87.8	86.3	76.6	64.2	57.0	55.1	53.7	53.7	53.7	53.7
80°	69.8	67.9	66.1	58.5	49.1	44.4	44.4	44.4	44.4	44.4	44.4
82.5°	52.0	49.4	46.8	42.2	36.9	34.3	34.3	34.2	33.8	33.4	33.8
85°	25.4	23.0	20.7	20.1	20.1	18.7	15.9	13.4	12.0	10.6	12.0
87.5°	6.8	6.8	6.8	5.4	3.5	2.5	2.5	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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1035.4	1034.9	1034.5	1036.9	1042.2	1044.7	1039.1	1033.4	1039.1	1044.7	1042.2
5°	1042.0	1040.1	1039.2	1041.3	1046.5	1048.4	1040.4	1032.4	1040.4	1048.4	1046.5
7.5°	1059.5	1055.9	1053.2	1053.2	1055.8	1054.9	1043.6	1032.2	1043.6	1054.9	1055.8
10°	1060.5	1058.5	1058.0	1058.7	1060.6	1058.6	1045.0	1031.3	1045.0	1058.6	1060.6
12.5°	1044.5	1044.1	1044.8	1048.8	1056.4	1058.0	1042.1	1026.3	1042.1	1058.0	1056.4
15°	1020.3	1018.6	1017.2	1024.7	1041.2	1048.8	1030.0	1011.2	1030.0	1048.8	1041.2
17.5°	1006.3	1001.3	996.2	1001.5	1017.2	1024.1	1004.4	984.8	1004.4	1024.1	1017.2
20°	999.5	992.5	986.0	989.0	1001.7	1006.4	987.1	967.9	987.1	1006.4	1001.7
22.5°	996.0	986.3	977.1	977.7	988.2	991.2	971.9	952.6	971.9	991.2	988.2
25°	995.2	980.6	965.0	959.9	965.0	964.7	947.8	930.8	947.8	964.7	965.0
27.5°	992.0	974.1	953.2	940.0	934.5	927.9	918.0	908.0	918.0	927.9	934.5
30°	977.1	962.6	944.2	928.0	913.9	901.7	895.1	888.5	895.1	901.7	913.9
32.5°	945.7	939.4	929.8	914.1	892.5	875.3	871.3	867.4	871.3	875.3	892.5
35°	884.2	892.1	899.6	889.2	861.0	839.1	835.8	832.5	835.8	839.1	861.0
37.5°	802.8	821.9	843.9	844.1	822.5	804.5	797.8	791.0	797.8	804.5	822.5
40°	736.4	764.1	797.0	807.3	795.1	783.1	771.8	760.5	771.8	783.1	795.1
42.5°	660.5	695.5	737.5	759.6	762.1	759.4	741.4	723.3	741.4	759.4	762.1
45°	552.4	590.6	636.2	672.4	699.2	713.2	688.7	664.3	688.7	713.2	699.2
47.5°	457.9	492.1	532.9	575.0	618.5	644.9	619.8	594.7	619.8	644.9	618.5
50°	400.0	432.6	470.7	513.0	559.6	589.4	569.2	549.0	569.2	589.4	559.6
52.5°	346.2	378.5	416.6	457.7	502.0	531.6	517.0	502.4	517.0	531.6	502.0
55°	275.6	305.3	341.5	379.2	418.2	445.6	438.0	430.5	438.0	445.6	418.2
57.5°	222.8	247.7	278.5	311.9	348.1	374.1	369.3	364.5	369.3	374.1	348.1
60°	195.2	214.7	238.7	268.8	305.0	331.3	328.0	324.7	328.0	331.3	305.0
62.5°	171.9	187.4	206.5	233.3	268.0	293.4	290.9	288.3	290.9	293.4	268.0
65°	142.0	153.7	168.3	190.4	220.0	241.6	239.3	236.9	239.3	241.6	220.0
67.5°	117.9	127.3	138.8	156.6	180.7	198.6	197.3	196.1	197.3	198.6	180.7
70°	102.0	110.4	120.7	136.5	157.6	173.4	172.9	172.4	172.9	173.4	157.6
72.5°	88.7	95.4	103.9	117.4	135.9	149.9	150.6	151.3	150.6	149.9	135.9
75°	69.6	74.0	79.7	90.0	105.1	116.7	118.1	119.5	118.1	116.7	105.1
77.5°	53.7	55.1	57.0	64.2	76.6	86.3	87.8	89.3	87.8	86.3	76.6
80°	44.4	44.4	44.4	49.1	58.5	66.1	67.9	69.8	67.9	66.1	58.5
82.5°	34.2	34.3	34.3	36.9	42.2	46.8	49.4	52.0	49.4	46.8	42.2
85°	13.4	15.9	18.7	20.1	20.1	20.7	23.0	25.4	23.0	20.7	20.1
87.5°	2.5	2.5	2.5	3.5	5.4	6.8	6.8	6.8	6.8	6.8	5.4
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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1036.9	1034.5	1034.9	1035.4	1036.5	1037.7	1036.5	1035.4	1034.9	1034.5	1036.9
5°	1041.3	1039.2	1040.1	1042.0	1046.7	1051.4	1046.7	1042.0	1040.1	1039.2	1041.3
7.5°	1053.2	1053.2	1055.9	1059.5	1065.7	1071.9	1065.7	1059.5	1055.9	1053.2	1053.2
10°	1058.7	1058.0	1058.5	1060.5	1067.1	1073.6	1067.1	1060.5	1058.5	1058.0	1058.7
12.5°	1048.8	1044.8	1044.1	1044.5	1048.1	1051.6	1048.1	1044.5	1044.1	1044.8	1048.8
15°	1024.7	1017.2	1018.6	1020.3	1022.6	1025.0	1022.6	1020.3	1018.6	1017.2	1024.7
17.5°	1001.5	996.2	1001.3	1006.3	1010.9	1015.5	1010.9	1006.3	1001.3	996.2	1001.5
20°	989.0	986.0	992.5	999.5	1007.5	1015.5	1007.5	999.5	992.5	986.0	989.0
22.5°	977.7	977.1	986.3	996.0	1007.0	1018.0	1007.0	996.0	986.3	977.1	977.7
25°	959.9	965.0	980.6	995.2	1007.5	1019.7	1007.5	995.2	980.6	965.0	959.9
27.5°	940.0	953.2	974.1	992.0	1000.6	1009.1	1000.6	992.0	974.1	953.2	940.0
30°	928.0	944.2	962.6	977.1	980.4	983.7	980.4	977.1	962.6	944.2	928.0
32.5°	914.1	929.8	939.4	945.7	941.4	937.2	941.4	945.7	939.4	929.8	914.1
35°	889.2	899.6	892.1	884.2	875.3	866.3	875.3	884.2	892.1	899.6	889.2
37.5°	844.1	843.9	821.9	802.8	792.6	782.3	792.6	802.8	821.9	843.9	844.1
40°	807.3	797.0	764.1	736.4	724.7	712.9	724.7	736.4	764.1	797.0	807.3
42.5°	759.6	737.5	695.5	660.5	646.1	631.7	646.1	660.5	695.5	737.5	759.6
45°	672.4	636.2	590.6	552.4	536.4	520.4	536.4	552.4	590.6	636.2	672.4
47.5°	575.0	532.9	492.1	457.9	442.9	428.0	442.9	457.9	492.1	532.9	575.0
50°	513.0	470.7	432.6	400.0	383.5	367.0	383.5	400.0	432.6	470.7	513.0
52.5°	457.7	416.6	378.5	346.2	331.2	316.3	331.2	346.2	378.5	416.6	457.7
55°	379.2	341.5	305.3	275.6	265.3	254.9	265.3	275.6	305.3	341.5	379.2
57.5°	311.9	278.5	247.7	222.8	215.2	207.5	215.2	222.8	247.7	278.5	311.9
60°	268.8	238.7	214.7	195.2	189.1	183.0	189.1	195.2	214.7	238.7	268.8
62.5°	233.3	206.5	187.4	171.9	167.3	162.7	167.3	171.9	187.4	206.5	233.3
65°	190.4	168.3	153.7	142.0	138.7	135.4	138.7	142.0	153.7	168.3	190.4
67.5°	156.6	138.8	127.3	117.9	114.8	111.7	114.8	117.9	127.3	138.8	156.6
70°	136.5	120.7	110.4	102.0	99.7	97.3	99.7	102.0	110.4	120.7	136.5
72.5°	117.4	103.9	95.4	88.7	87.1	85.5	87.1	88.7	95.4	103.9	117.4
75°	90.0	79.7	74.0	69.6	68.6	67.7	68.6	69.6	74.0	79.7	90.0
77.5°	64.2	57.0	55.1	53.7	53.7	53.7	53.7	53.7	55.1	57.0	64.2
80°	49.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	49.1
82.5°	36.9	34.3	34.3	34.2	33.8	33.4	33.8	34.2	34.3	34.3	36.9
85°	20.1	18.7	15.9	13.4	12.0	10.6	12.0	13.4	15.9	18.7	20.1
87.5°	3.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.5
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: P1428160

CATALOG NUMBER: SQ2W-PR1-0U-050D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1037.7	1037.7	1037.7	1037.7
2.5°	1042.2	1044.7	1039.1	1033.4
5°	1046.5	1048.4	1040.4	1032.4
7.5°	1055.8	1054.9	1043.6	1032.2
10°	1060.6	1058.6	1045.0	1031.3
12.5°	1056.4	1058.0	1042.1	1026.3
15°	1041.2	1048.8	1030.0	1011.2
17.5°	1017.2	1024.1	1004.4	984.8
20°	1001.7	1006.4	987.1	967.9
22.5°	988.2	991.2	971.9	952.6
25°	965.0	964.7	947.8	930.8
27.5°	934.5	927.9	918.0	908.0
30°	913.9	901.7	895.1	888.5
32.5°	892.5	875.3	871.3	867.4
35°	861.0	839.1	835.8	832.5
37.5°	822.5	804.5	797.8	791.0
40°	795.1	783.1	771.8	760.5
42.5°	762.1	759.4	741.4	723.3
45°	699.2	713.2	688.7	664.3
47.5°	618.5	644.9	619.8	594.7
50°	559.6	589.4	569.2	549.0
52.5°	502.0	531.6	517.0	502.4
55°	418.2	445.6	438.0	430.5
57.5°	348.1	374.1	369.3	364.5
60°	305.0	331.3	328.0	324.7
62.5°	268.0	293.4	290.9	288.3
65°	220.0	241.6	239.3	236.9
67.5°	180.7	198.6	197.3	196.1
70°	157.6	173.4	172.9	172.4
72.5°	135.9	149.9	150.6	151.3
75°	105.1	116.7	118.1	119.5
77.5°	76.6	86.3	87.8	89.3
80°	58.5	66.1	67.9	69.8
82.5°	42.2	46.8	49.4	52.0
85°	20.1	20.7	23.0	25.4
87.5°	5.4	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428160
 CATALOG NUMBER: SQ2W-PR1-0U-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	20.39	21.89	20.76	22.20	22.51	16.76	18.26	17.13	18.57	18.89
	3H	21.64	22.98	22.02	23.31	23.67	17.97	19.31	18.35	19.64	20.00
	4H	22.16	23.41	22.56	23.76	24.14	18.46	19.71	18.86	20.06	20.44
	6H	22.49	23.64	22.90	24.01	24.40	18.83	19.99	19.25	20.36	20.75
	8H	22.61	23.70	23.03	24.09	24.50	18.99	20.09	19.41	20.48	20.88
	12H	22.66	23.72	23.09	24.10	24.53	19.04	20.09	19.47	20.47	20.90
4H	2H	20.57	21.82	20.97	22.17	22.55	17.55	18.80	17.95	19.15	19.53
	3H	22.09	23.12	22.50	23.52	23.92	18.96	19.99	19.37	20.39	20.79
	4H	22.74	23.67	23.17	24.08	24.52	19.53	20.46	19.96	20.87	21.31
	6H	23.20	24.01	23.66	24.45	24.91	19.99	20.80	20.45	21.24	21.70
	8H	23.37	24.12	23.83	24.57	25.04	20.18	20.94	20.65	21.38	21.85
	12H	23.46	24.14	23.95	24.61	25.09	20.26	20.93	20.74	21.41	21.88
8H	4H	22.81	23.56	23.27	24.00	24.47	19.90	20.65	20.36	21.09	21.56
	6H	23.36	23.98	23.86	24.47	24.95	20.46	21.08	20.95	21.57	22.05
	8H	23.59	24.15	24.11	24.66	25.15	20.72	21.28	21.23	21.79	22.28
	12H	23.74	24.23	24.25	24.72	25.29	20.84	21.33	21.35	21.83	22.39
12H	4H	22.79	23.46	23.27	23.94	24.41	19.94	20.62	20.43	21.09	21.57
	6H	23.35	23.91	23.86	24.42	24.91	20.53	21.09	21.04	21.60	22.09
	8H	23.62	24.12	24.13	24.61	25.18	20.84	21.34	21.35	21.83	22.40