

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: P1427824

Luminaire Tested: SQ2W-PH1-0U-050D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427824
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-0U-050D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX 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

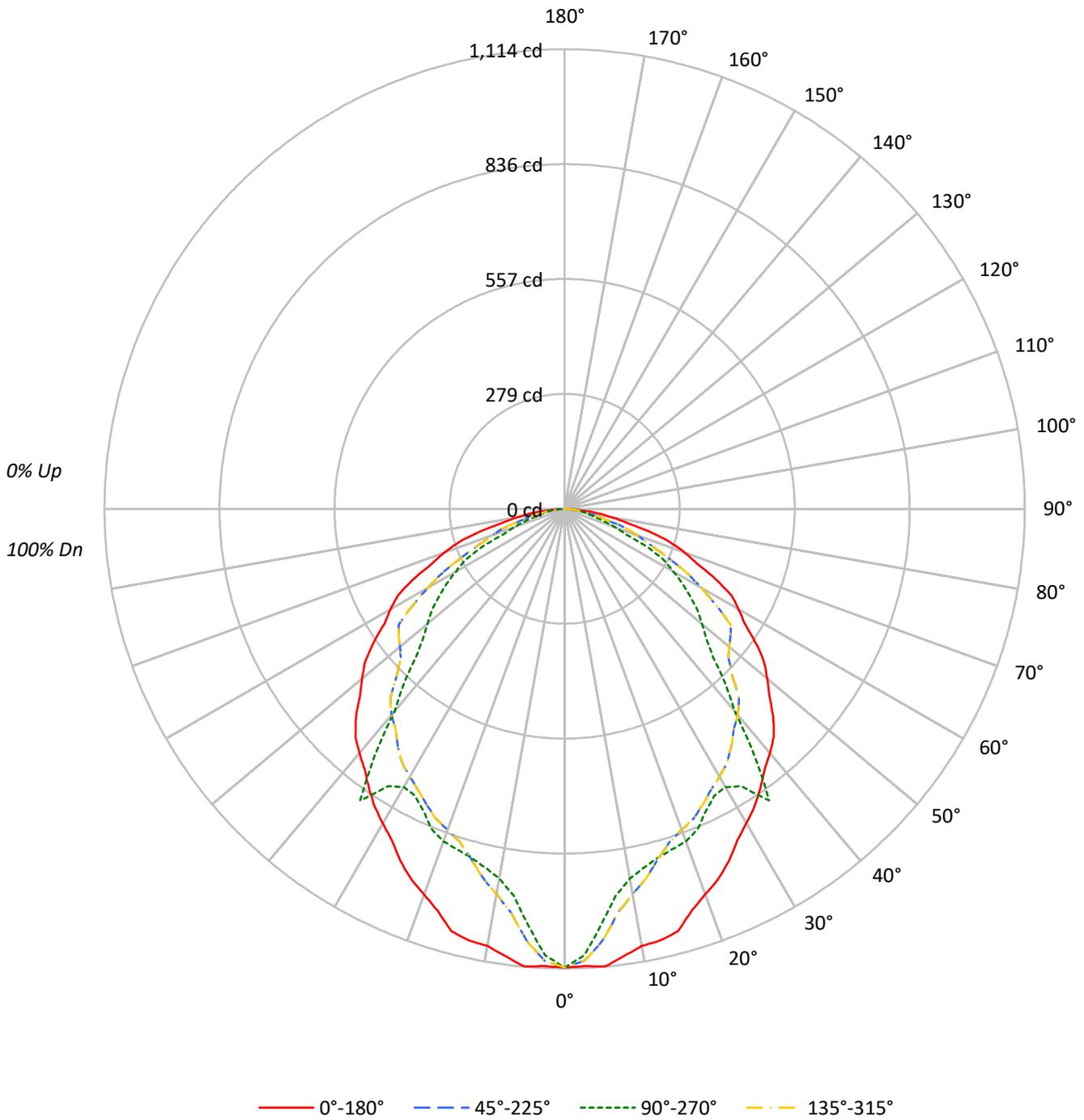
Lumens per Lamp: N/A
Luminaire Lumens: 2458.1 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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





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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				
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17949	17949	17949	17949
5°	18052	16407	18052	16407
10°	17637	14914	17637	14914
15°	17716	14622	17716	14622
20°	17084	14740	17084	14740
25°	16771	14396	16771	14396
30°	16408	14514	16408	14514
35°	16282	17012	16282	17012
40°	16296	13489	16296	13489
45°	16303	11618	16303	11618
50°	16076	10894	16076	10894
55°	15870	10452	15870	10452
60°	15713	9804	15713	9804
65°	15438	8527	15438	8527
70°	14582	6090	14582	6090
75°	13000	4616	13000	4616
80°	10618	4324	10618	4324
85°	6669	2945	6669	2945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	4.0
10°-20°	257.3	10.5
20°-30°	377.2	15.3
30°-40°	456.8	18.6
40°-50°	449.2	18.3
50°-60°	390.7	15.9
60°-70°	271.7	11.1
70°-80°	128.9	5.2
80°-90°	28.4	1.2
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°	732.4	29.8
0°-40°	1189.2	48.4
0°-60°	2029.1	82.5
0°-90°	2458.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1112	1112	1112	1112	1112	
5°	1114	1012	1114	1012	1114	105
15°	1060	875	1060	875	1060	295
25°	941	808	941	808	941	433
35°	826	863	826	863	826	517
45°	714	509	714	509	714	549
55°	564	371	564	371	564	504
65°	404	223	404	223	404	397
75°	208	74	208	74	208	221
85°	36	16	36	16	36	49
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°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1109.2	1114.4	1119.7	1112.3	1100.6	1092.5	1088.0	1084.5	1083.7	1083.0	1083.7
5°	1113.8	1113.4	1112.9	1090.9	1061.8	1039.9	1025.3	1014.2	1013.2	1012.3	1013.2
7.5°	1093.5	1079.0	1064.4	1034.9	1000.3	975.1	959.0	946.7	946.0	945.2	946.0
10°	1075.8	1053.7	1031.6	998.2	961.0	935.2	920.6	909.7	909.7	909.7	909.7
12.5°	1071.5	1036.6	1001.8	965.2	928.0	904.1	893.3	885.7	888.0	890.2	888.0
15°	1059.9	1007.2	954.6	917.4	885.5	868.1	865.3	864.4	869.6	874.8	869.6
17.5°	1021.4	964.7	908.0	875.3	850.7	841.4	847.4	853.4	859.5	865.5	859.5
20°	994.3	938.4	882.4	852.2	830.6	825.4	836.7	846.6	852.2	857.9	852.2
22.5°	971.5	914.8	858.1	831.3	814.6	812.4	824.9	834.9	837.9	840.9	837.9
25°	941.4	877.5	813.5	794.0	789.3	792.4	803.2	811.0	809.6	808.1	809.6
27.5°	905.5	838.7	771.9	759.4	765.0	771.0	777.6	782.8	783.6	784.4	783.6
30°	880.1	813.3	746.6	736.6	745.5	753.3	759.8	766.3	772.4	778.5	772.4
32.5°	855.5	786.5	717.5	710.3	723.8	738.3	753.9	769.1	783.1	797.1	783.1
35°	826.1	754.2	682.3	676.6	693.1	714.2	740.1	771.0	817.1	863.1	817.1
37.5°	795.2	718.1	641.0	638.5	660.8	683.0	705.3	725.7	740.4	755.0	740.4
40°	773.2	692.4	611.5	611.4	638.2	665.9	694.6	707.7	673.8	640.0	673.8
42.5°	749.5	668.7	587.8	585.4	609.2	639.8	677.1	690.8	633.7	576.5	633.7
45°	714.0	629.8	545.7	542.6	566.6	583.5	593.4	590.6	549.7	508.8	549.7
47.5°	672.1	591.9	511.7	511.0	536.9	538.8	516.7	496.1	480.1	464.2	480.1
50°	640.0	564.3	488.6	491.9	521.5	518.7	483.4	454.4	444.0	433.7	444.0
52.5°	608.6	536.7	464.8	473.5	509.2	503.5	456.6	419.7	412.7	405.8	412.7
55°	563.8	494.7	425.6	445.3	494.7	487.2	422.8	374.1	372.7	371.3	372.7
57.5°	516.2	450.8	385.5	399.2	439.3	431.4	375.5	334.2	336.7	339.1	336.7
60°	486.6	423.1	359.6	361.4	384.9	377.4	338.8	309.2	306.4	303.6	306.4
62.5°	455.3	394.8	334.4	325.6	334.0	325.2	299.1	278.8	275.9	273.1	275.9
65°	404.1	349.1	294.1	277.5	273.7	261.0	239.4	223.2	223.2	223.2	223.2
67.5°	347.8	299.8	251.9	233.3	224.6	212.0	195.5	180.4	169.1	157.8	169.1
70°	308.9	266.6	224.2	204.9	193.1	178.1	159.7	144.1	136.6	129.0	136.6
72.5°	267.4	231.1	194.8	175.0	160.6	145.9	131.0	117.6	108.9	100.3	108.9
75°	208.4	179.2	150.1	130.8	114.8	100.0	86.4	75.9	75.0	74.0	75.0
77.5°	150.6	129.4	108.1	92.5	78.8	68.5	61.6	56.5	56.6	56.7	56.6
80°	114.2	98.3	82.3	67.7	53.6	46.3	45.8	45.6	46.1	46.5	46.1
82.5°	80.4	68.5	56.7	47.4	38.9	35.0	35.7	36.2	36.3	36.4	36.3
85°	36.0	30.3	24.7	22.6	21.6	20.2	18.3	16.8	16.3	15.9	16.3
87.5°	7.6	7.2	6.9	5.9	4.8	4.2	4.2	4.2	4.2	4.2	4.2
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1084.5	1088.0	1092.5	1100.6	1112.3	1119.7	1114.4	1109.2	1114.4	1119.7	1112.3
5°	1014.2	1025.3	1039.9	1061.8	1090.9	1112.9	1113.4	1113.8	1113.4	1112.9	1090.9
7.5°	946.7	959.0	975.1	1000.3	1034.9	1064.4	1079.0	1093.5	1079.0	1064.4	1034.9
10°	909.7	920.6	935.2	961.0	998.2	1031.6	1053.7	1075.8	1053.7	1031.6	998.2
12.5°	885.7	893.3	904.1	928.0	965.2	1001.8	1036.6	1071.5	1036.6	1001.8	965.2
15°	864.4	865.3	868.1	885.5	917.4	954.6	1007.2	1059.9	1007.2	954.6	917.4
17.5°	853.4	847.4	841.4	850.7	875.3	908.0	964.7	1021.4	964.7	908.0	875.3
20°	846.6	836.7	825.4	830.6	852.2	882.4	938.4	994.3	938.4	882.4	852.2
22.5°	834.9	824.9	812.4	814.6	831.3	858.1	914.8	971.5	914.8	858.1	831.3
25°	811.0	803.2	792.4	789.3	794.0	813.5	877.5	941.4	877.5	813.5	794.0
27.5°	782.8	777.6	771.0	765.0	759.4	771.9	838.7	905.5	838.7	771.9	759.4
30°	766.3	759.8	753.3	745.5	736.6	746.6	813.3	880.1	813.3	746.6	736.6
32.5°	769.1	753.9	738.3	723.8	710.3	717.5	786.5	855.5	786.5	717.5	710.3
35°	771.0	740.1	714.2	693.1	676.6	682.3	754.2	826.1	754.2	682.3	676.6
37.5°	725.7	705.3	683.0	660.8	638.5	641.0	718.1	795.2	718.1	641.0	638.5
40°	707.7	694.6	665.9	638.2	611.4	611.5	692.4	773.2	692.4	611.5	611.4
42.5°	690.8	677.1	639.8	609.2	585.4	587.8	668.7	749.5	668.7	587.8	585.4
45°	590.6	593.4	583.5	566.6	542.6	545.7	629.8	714.0	629.8	545.7	542.6
47.5°	496.1	516.7	538.8	536.9	511.0	511.7	591.9	672.1	591.9	511.7	511.0
50°	454.4	483.4	518.7	521.5	491.9	488.6	564.3	640.0	564.3	488.6	491.9
52.5°	419.7	456.6	503.5	509.2	473.5	464.8	536.7	608.6	536.7	464.8	473.5
55°	374.1	422.8	487.2	494.7	445.3	425.6	494.7	563.8	494.7	425.6	445.3
57.5°	334.2	375.5	431.4	439.3	399.2	385.5	450.8	516.2	450.8	385.5	399.2
60°	309.2	338.8	377.4	384.9	361.4	359.6	423.1	486.6	423.1	359.6	361.4
62.5°	278.8	299.1	325.2	334.0	325.6	334.4	394.8	455.3	394.8	334.4	325.6
65°	223.2	239.4	261.0	273.7	277.5	294.1	349.1	404.1	349.1	294.1	277.5
67.5°	180.4	195.5	212.0	224.6	233.3	251.9	299.8	347.8	299.8	251.9	233.3
70°	144.1	159.7	178.1	193.1	204.9	224.2	266.6	308.9	266.6	224.2	204.9
72.5°	117.6	131.0	145.9	160.6	175.0	194.8	231.1	267.4	231.1	194.8	175.0
75°	75.9	86.4	100.0	114.8	130.8	150.1	179.2	208.4	179.2	150.1	130.8
77.5°	56.5	61.6	68.5	78.8	92.5	108.1	129.4	150.6	129.4	108.1	92.5
80°	45.6	45.8	46.3	53.6	67.7	82.3	98.3	114.2	98.3	82.3	67.7
82.5°	36.2	35.7	35.0	38.9	47.4	56.7	68.5	80.4	68.5	56.7	47.4
85°	16.8	18.3	20.2	21.6	22.6	24.7	30.3	36.0	30.3	24.7	22.6
87.5°	4.2	4.2	4.2	4.8	5.9	6.9	7.2	7.6	7.2	6.9	5.9
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°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1100.6	1092.5	1088.0	1084.5	1083.7	1083.0	1083.7	1084.5	1088.0	1092.5	1100.6
5°	1061.8	1039.9	1025.3	1014.2	1013.2	1012.3	1013.2	1014.2	1025.3	1039.9	1061.8
7.5°	1000.3	975.1	959.0	946.7	946.0	945.2	946.0	946.7	959.0	975.1	1000.3
10°	961.0	935.2	920.6	909.7	909.7	909.7	909.7	909.7	920.6	935.2	961.0
12.5°	928.0	904.1	893.3	885.7	888.0	890.2	888.0	885.7	893.3	904.1	928.0
15°	885.5	868.1	865.3	864.4	869.6	874.8	869.6	864.4	865.3	868.1	885.5
17.5°	850.7	841.4	847.4	853.4	859.5	865.5	859.5	853.4	847.4	841.4	850.7
20°	830.6	825.4	836.7	846.6	852.2	857.9	852.2	846.6	836.7	825.4	830.6
22.5°	814.6	812.4	824.9	834.9	837.9	840.9	837.9	834.9	824.9	812.4	814.6
25°	789.3	792.4	803.2	811.0	809.6	808.1	809.6	811.0	803.2	792.4	789.3
27.5°	765.0	771.0	777.6	782.8	783.6	784.4	783.6	782.8	777.6	771.0	765.0
30°	745.5	753.3	759.8	766.3	772.4	778.5	772.4	766.3	759.8	753.3	745.5
32.5°	723.8	738.3	753.9	769.1	783.1	797.1	783.1	769.1	753.9	738.3	723.8
35°	693.1	714.2	740.1	771.0	817.1	863.1	817.1	771.0	740.1	714.2	693.1
37.5°	660.8	683.0	705.3	725.7	740.4	755.0	740.4	725.7	705.3	683.0	660.8
40°	638.2	665.9	694.6	707.7	673.8	640.0	673.8	707.7	694.6	665.9	638.2
42.5°	609.2	639.8	677.1	690.8	633.7	576.5	633.7	690.8	677.1	639.8	609.2
45°	566.6	583.5	593.4	590.6	549.7	508.8	549.7	590.6	593.4	583.5	566.6
47.5°	536.9	538.8	516.7	496.1	480.1	464.2	480.1	496.1	516.7	538.8	536.9
50°	521.5	518.7	483.4	454.4	444.0	433.7	444.0	454.4	483.4	518.7	521.5
52.5°	509.2	503.5	456.6	419.7	412.7	405.8	412.7	419.7	456.6	503.5	509.2
55°	494.7	487.2	422.8	374.1	372.7	371.3	372.7	374.1	422.8	487.2	494.7
57.5°	439.3	431.4	375.5	334.2	336.7	339.1	336.7	334.2	375.5	431.4	439.3
60°	384.9	377.4	338.8	309.2	306.4	303.6	306.4	309.2	338.8	377.4	384.9
62.5°	334.0	325.2	299.1	278.8	275.9	273.1	275.9	278.8	299.1	325.2	334.0
65°	273.7	261.0	239.4	223.2	223.2	223.2	223.2	223.2	239.4	261.0	273.7
67.5°	224.6	212.0	195.5	180.4	169.1	157.8	169.1	180.4	195.5	212.0	224.6
70°	193.1	178.1	159.7	144.1	136.6	129.0	136.6	144.1	159.7	178.1	193.1
72.5°	160.6	145.9	131.0	117.6	108.9	100.3	108.9	117.6	131.0	145.9	160.6
75°	114.8	100.0	86.4	75.9	75.0	74.0	75.0	75.9	86.4	100.0	114.8
77.5°	78.8	68.5	61.6	56.5	56.6	56.7	56.6	56.5	61.6	68.5	78.8
80°	53.6	46.3	45.8	45.6	46.1	46.5	46.1	45.6	45.8	46.3	53.6
82.5°	38.9	35.0	35.7	36.2	36.3	36.4	36.3	36.2	35.7	35.0	38.9
85°	21.6	20.2	18.3	16.8	16.3	15.9	16.3	16.8	18.3	20.2	21.6
87.5°	4.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.8
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: P1427824

CATALOG NUMBER: SQ2W-PH1-0U-050D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1111.7	1111.7	1111.7	1111.7
2.5°	1112.3	1119.7	1114.4	1109.2
5°	1090.9	1112.9	1113.4	1113.8
7.5°	1034.9	1064.4	1079.0	1093.5
10°	998.2	1031.6	1053.7	1075.8
12.5°	965.2	1001.8	1036.6	1071.5
15°	917.4	954.6	1007.2	1059.9
17.5°	875.3	908.0	964.7	1021.4
20°	852.2	882.4	938.4	994.3
22.5°	831.3	858.1	914.8	971.5
25°	794.0	813.5	877.5	941.4
27.5°	759.4	771.9	838.7	905.5
30°	736.6	746.6	813.3	880.1
32.5°	710.3	717.5	786.5	855.5
35°	676.6	682.3	754.2	826.1
37.5°	638.5	641.0	718.1	795.2
40°	611.4	611.5	692.4	773.2
42.5°	585.4	587.8	668.7	749.5
45°	542.6	545.7	629.8	714.0
47.5°	511.0	511.7	591.9	672.1
50°	491.9	488.6	564.3	640.0
52.5°	473.5	464.8	536.7	608.6
55°	445.3	425.6	494.7	563.8
57.5°	399.2	385.5	450.8	516.2
60°	361.4	359.6	423.1	486.6
62.5°	325.6	334.4	394.8	455.3
65°	277.5	294.1	349.1	404.1
67.5°	233.3	251.9	299.8	347.8
70°	204.9	224.2	266.6	308.9
72.5°	175.0	194.8	231.1	267.4
75°	130.8	150.1	179.2	208.4
77.5°	92.5	108.1	129.4	150.6
80°	67.7	82.3	98.3	114.2
82.5°	47.4	56.7	68.5	80.4
85°	22.6	24.7	30.3	36.0
87.5°	5.9	6.9	7.2	7.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427824
 CATALOG NUMBER: SQ2W-PH1-0U-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	20.75	22.34	21.12	22.66	22.97	19.58	21.17	19.95	21.49	21.80
	3H	22.98	24.41	23.36	24.74	25.10	20.68	22.11	21.06	22.44	22.80
	4H	23.83	25.17	24.22	25.52	25.90	20.96	22.31	21.36	22.65	23.03
	6H	24.33	25.57	24.74	25.94	26.33	21.14	22.38	21.55	22.75	23.14
	8H	24.50	25.69	24.93	26.08	26.48	21.22	22.40	21.64	22.79	23.19
	12H	24.58	25.72	25.01	26.10	26.53	21.25	22.39	21.68	22.77	23.20
4H	2H	21.27	22.62	21.67	22.97	23.34	20.35	21.69	20.75	22.04	22.42
	3H	23.59	24.71	24.00	25.11	25.51	21.64	22.76	22.05	23.16	23.56
	4H	24.49	25.50	24.92	25.91	26.35	21.97	22.97	22.40	23.39	23.83
	6H	25.09	25.97	25.55	26.41	26.87	22.20	23.08	22.66	23.52	23.98
	8H	25.31	26.13	25.77	26.57	27.04	22.31	23.13	22.77	23.57	24.04
	12H	25.43	26.16	25.91	26.64	27.11	22.37	23.10	22.85	23.58	24.05
8H	4H	24.57	25.39	25.03	25.83	26.30	22.25	23.07	22.71	23.51	23.98
	6H	25.23	25.91	25.72	26.40	26.87	22.55	23.23	23.04	23.72	24.19
	8H	25.50	26.11	26.01	26.61	27.10	22.70	23.31	23.21	23.82	24.30
	12H	25.66	26.20	26.17	26.69	27.25	22.80	23.33	23.30	23.82	24.39
12H	4H	24.56	25.29	25.04	25.77	26.24	22.28	23.01	22.76	23.49	23.96
	6H	25.21	25.82	25.72	26.33	26.81	22.59	23.20	23.10	23.70	24.19
	8H	25.52	26.05	26.02	26.54	27.11	22.78	23.32	23.29	23.81	24.37