

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: P1428325

Luminaire Tested: SQ2W-PW1-0U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428325
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-L840-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, 80 CRI LEDS
Ballast/Driver: -

Summary

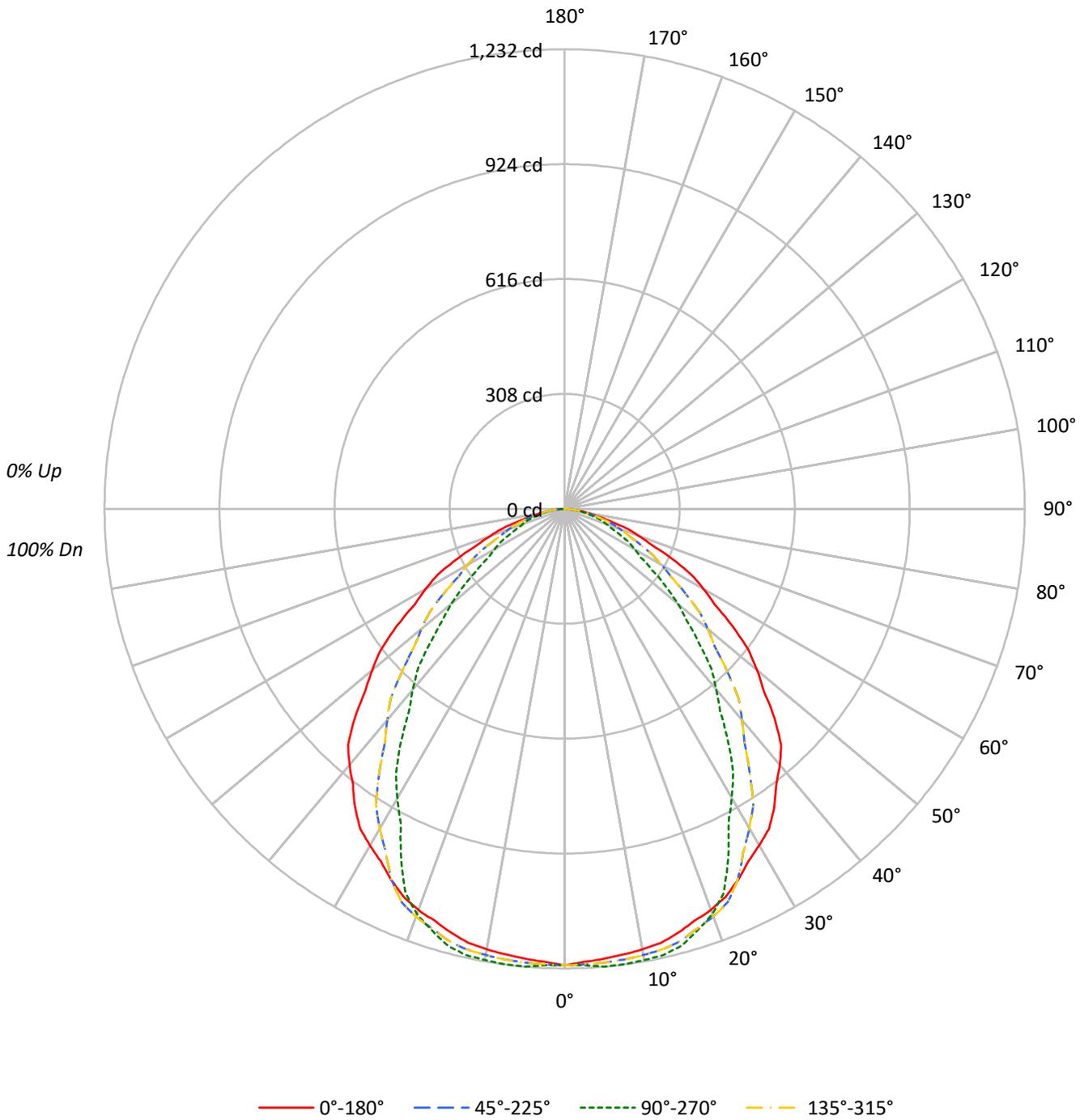
Lumens per Lamp: N/A
Luminaire Lumens: 2715.3 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
Input Voltage (V): 120
Input Current (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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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	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°	19757	19757	19757	19757
5°	19625	19964	19625	19964
10°	19660	20138	19660	20138
15°	19655	20259	19655	20259
20°	19663	19864	19663	19864
25°	19557	18458	19557	18458
30°	19424	16686	19424	16686
35°	19273	15068	19273	15068
40°	18889	13314	18889	13314
45°	18148	11629	18148	11629
50°	16889	9952	16889	9952
55°	15451	8070	15451	8070
60°	13850	6962	13850	6962
65°	12111	6189	12111	6189
70°	9904	5613	9904	5613
75°	7704	5159	7704	5159
80°	5746	4547	5746	4547
85°	3890	2593	3890	2593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	4.3
10°-20°	337.6	12.4
20°-30°	496.8	18.3
30°-40°	543.2	20.0
40°-50°	487.3	17.9
50°-60°	363.5	13.4
60°-70°	229.8	8.5
70°-80°	113.8	4.2
80°-90°	26.6	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°	951.0	35.0
0°-40°	1494.2	55.0
0°-60°	2345.1	86.4
0°-90°	2715.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1224	1224	1224	1224	1224	
5°	1211	1232	1211	1232	1211	115
15°	1176	1212	1176	1212	1176	332
25°	1098	1036	1098	1036	1098	506
35°	978	764	978	764	978	610
45°	795	509	795	509	795	609
55°	549	287	549	287	549	490
65°	317	162	317	162	317	314
75°	124	83	124	83	124	136
85°	21	14	21	14	21	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°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1215.3	1222.3	1229.4	1227.7	1223.2	1221.1	1221.5	1222.1	1223.4	1224.6	1223.4
5°	1210.9	1219.7	1228.5	1227.2	1222.5	1220.4	1221.0	1222.5	1227.2	1231.8	1227.2
7.5°	1204.8	1213.7	1222.6	1222.2	1218.7	1217.8	1219.6	1222.0	1226.6	1231.1	1226.6
10°	1199.2	1208.5	1217.9	1217.9	1214.8	1214.5	1217.1	1220.1	1224.2	1228.3	1224.2
12.5°	1191.8	1201.5	1211.2	1212.0	1209.7	1210.0	1213.0	1216.3	1220.5	1224.6	1220.5
15°	1175.9	1186.3	1196.6	1198.8	1198.3	1199.9	1203.5	1206.9	1209.4	1212.0	1209.4
17.5°	1157.5	1167.8	1178.2	1180.3	1179.5	1179.6	1180.6	1181.6	1182.8	1184.1	1182.8
20°	1144.4	1154.8	1165.2	1166.6	1165.0	1162.4	1158.8	1156.1	1156.1	1156.1	1156.1
22.5°	1125.8	1137.0	1148.2	1148.2	1144.6	1137.9	1128.0	1119.8	1116.5	1113.2	1116.5
25°	1097.8	1108.7	1119.6	1114.5	1104.2	1088.9	1068.7	1051.6	1043.8	1036.1	1043.8
27.5°	1065.2	1074.0	1082.8	1069.6	1049.1	1024.5	995.8	971.6	960.8	950.0	960.8
30°	1041.9	1048.6	1055.3	1034.5	1004.5	973.6	942.0	915.8	905.4	895.0	905.4
32.5°	1017.6	1020.2	1022.8	995.3	957.8	922.7	889.8	862.4	851.2	840.0	851.2
35°	977.8	973.1	968.5	931.9	884.8	844.7	811.5	784.2	774.4	764.5	774.4
37.5°	930.7	916.8	902.9	861.8	811.5	769.1	734.4	705.6	694.7	683.9	694.7
40°	896.2	876.5	856.8	812.7	760.4	716.9	682.2	653.4	642.5	631.7	642.5
42.5°	858.0	833.3	808.7	763.3	711.0	667.4	632.7	603.9	592.6	581.3	592.6
45°	794.8	765.8	736.8	689.5	636.2	592.7	559.0	531.0	520.2	509.3	520.2
47.5°	723.7	694.9	666.1	619.0	565.7	522.8	490.2	463.4	454.0	444.7	454.0
50°	672.4	644.5	616.5	571.4	520.7	479.0	446.4	419.0	407.6	396.2	407.6
52.5°	620.2	595.2	570.1	526.7	477.2	435.7	402.2	373.2	357.7	342.2	357.7
55°	548.9	525.1	501.3	460.3	413.7	371.8	334.5	304.3	295.5	286.7	295.5
57.5°	475.5	454.9	434.3	397.5	355.3	317.3	283.4	256.2	249.0	241.7	249.0
60°	428.9	410.7	392.6	357.4	316.5	281.8	253.3	230.1	222.9	215.6	222.9
62.5°	384.1	368.1	352.0	318.2	278.6	247.4	224.7	206.2	200.2	194.2	200.2
65°	317.0	305.1	293.2	265.3	232.2	206.3	187.6	172.4	167.2	162.0	167.2
67.5°	251.7	245.1	238.5	217.6	192.0	171.1	154.7	141.6	138.1	134.7	138.1
70°	209.8	207.7	205.6	188.4	166.1	148.3	134.8	124.1	121.5	118.9	121.5
72.5°	173.4	174.2	175.1	160.7	141.4	126.4	115.8	107.5	105.7	104.0	105.7
75°	123.5	127.7	131.8	122.4	108.4	97.8	90.5	84.8	83.8	82.7	83.8
77.5°	84.1	90.4	96.6	90.4	80.2	72.4	67.0	62.7	61.9	61.1	61.9
80°	61.8	68.0	74.2	69.9	62.2	56.2	52.1	48.9	48.9	48.9	48.9
82.5°	43.1	48.1	53.1	50.0	44.3	40.5	38.4	36.8	36.8	36.8	36.8
85°	21.0	23.6	26.2	25.3	23.2	20.6	17.5	15.0	14.5	14.0	14.5
87.5°	5.6	6.8	8.1	6.8	4.8	3.5	3.1	2.8	2.8	2.8	2.8
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°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1222.1	1221.5	1221.1	1223.2	1227.7	1229.4	1222.3	1215.3	1222.3	1229.4	1227.7
5°	1222.5	1221.0	1220.4	1222.5	1227.2	1228.5	1219.7	1210.9	1219.7	1228.5	1227.2
7.5°	1222.0	1219.6	1217.8	1218.7	1222.2	1222.6	1213.7	1204.8	1213.7	1222.6	1222.2
10°	1220.1	1217.1	1214.5	1214.8	1217.9	1217.9	1208.5	1199.2	1208.5	1217.9	1217.9
12.5°	1216.3	1213.0	1210.0	1209.7	1212.0	1211.2	1201.5	1191.8	1201.5	1211.2	1212.0
15°	1206.9	1203.5	1199.9	1198.3	1198.8	1196.6	1186.3	1175.9	1186.3	1196.6	1198.8
17.5°	1181.6	1180.6	1179.6	1179.5	1180.3	1178.2	1167.8	1157.5	1167.8	1178.2	1180.3
20°	1156.1	1158.8	1162.4	1165.0	1166.6	1165.2	1154.8	1144.4	1154.8	1165.2	1166.6
22.5°	1119.8	1128.0	1137.9	1144.6	1148.2	1148.2	1137.0	1125.8	1137.0	1148.2	1148.2
25°	1051.6	1068.7	1088.9	1104.2	1114.5	1119.6	1108.7	1097.8	1108.7	1119.6	1114.5
27.5°	971.6	995.8	1024.5	1049.1	1069.6	1082.8	1074.0	1065.2	1074.0	1082.8	1069.6
30°	915.8	942.0	973.6	1004.5	1034.5	1055.3	1048.6	1041.9	1048.6	1055.3	1034.5
32.5°	862.4	889.8	922.7	957.8	995.3	1022.8	1020.2	1017.6	1020.2	1022.8	995.3
35°	784.2	811.5	844.7	884.8	931.9	968.5	973.1	977.8	973.1	968.5	931.9
37.5°	705.6	734.4	769.1	811.5	861.8	902.9	916.8	930.7	916.8	902.9	861.8
40°	653.4	682.2	716.9	760.4	812.7	856.8	876.5	896.2	876.5	856.8	812.7
42.5°	603.9	632.7	667.4	711.0	763.3	808.7	833.3	858.0	833.3	808.7	763.3
45°	531.0	559.0	592.7	636.2	689.5	736.8	765.8	794.8	765.8	736.8	689.5
47.5°	463.4	490.2	522.8	565.7	619.0	666.1	694.9	723.7	694.9	666.1	619.0
50°	419.0	446.4	479.0	520.7	571.4	616.5	644.5	672.4	644.5	616.5	571.4
52.5°	373.2	402.2	435.7	477.2	526.7	570.1	595.2	620.2	595.2	570.1	526.7
55°	304.3	334.5	371.8	413.7	460.3	501.3	525.1	548.9	525.1	501.3	460.3
57.5°	256.2	283.4	317.3	355.3	397.5	434.3	454.9	475.5	454.9	434.3	397.5
60°	230.1	253.3	281.8	316.5	357.4	392.6	410.7	428.9	410.7	392.6	357.4
62.5°	206.2	224.7	247.4	278.6	318.2	352.0	368.1	384.1	368.1	352.0	318.2
65°	172.4	187.6	206.3	232.2	265.3	293.2	305.1	317.0	305.1	293.2	265.3
67.5°	141.6	154.7	171.1	192.0	217.6	238.5	245.1	251.7	245.1	238.5	217.6
70°	124.1	134.8	148.3	166.1	188.4	205.6	207.7	209.8	207.7	205.6	188.4
72.5°	107.5	115.8	126.4	141.4	160.7	175.1	174.2	173.4	174.2	175.1	160.7
75°	84.8	90.5	97.8	108.4	122.4	131.8	127.7	123.5	127.7	131.8	122.4
77.5°	62.7	67.0	72.4	80.2	90.4	96.6	90.4	84.1	90.4	96.6	90.4
80°	48.9	52.1	56.2	62.2	69.9	74.2	68.0	61.8	68.0	74.2	69.9
82.5°	36.8	38.4	40.5	44.3	50.0	53.1	48.1	43.1	48.1	53.1	50.0
85°	15.0	17.5	20.6	23.2	25.3	26.2	23.6	21.0	23.6	26.2	25.3
87.5°	2.8	3.1	3.5	4.8	6.8	8.1	6.8	5.6	6.8	8.1	6.8
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°	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7	1223.7
2.5°	1223.2	1221.1	1221.5	1222.1	1223.4	1224.6	1223.4	1222.1	1221.5	1221.1	1223.2
5°	1222.5	1220.4	1221.0	1222.5	1227.2	1231.8	1227.2	1222.5	1221.0	1220.4	1222.5
7.5°	1218.7	1217.8	1219.6	1222.0	1226.6	1231.1	1226.6	1222.0	1219.6	1217.8	1218.7
10°	1214.8	1214.5	1217.1	1220.1	1224.2	1228.3	1224.2	1220.1	1217.1	1214.5	1214.8
12.5°	1209.7	1210.0	1213.0	1216.3	1220.5	1224.6	1220.5	1216.3	1213.0	1210.0	1209.7
15°	1198.3	1199.9	1203.5	1206.9	1209.4	1212.0	1209.4	1206.9	1203.5	1199.9	1198.3
17.5°	1179.5	1179.6	1180.6	1181.6	1182.8	1184.1	1182.8	1181.6	1180.6	1179.6	1179.5
20°	1165.0	1162.4	1158.8	1156.1	1156.1	1156.1	1156.1	1156.1	1158.8	1162.4	1165.0
22.5°	1144.6	1137.9	1128.0	1119.8	1116.5	1113.2	1116.5	1119.8	1128.0	1137.9	1144.6
25°	1104.2	1088.9	1068.7	1051.6	1043.8	1036.1	1043.8	1051.6	1068.7	1088.9	1104.2
27.5°	1049.1	1024.5	995.8	971.6	960.8	950.0	960.8	971.6	995.8	1024.5	1049.1
30°	1004.5	973.6	942.0	915.8	905.4	895.0	905.4	915.8	942.0	973.6	1004.5
32.5°	957.8	922.7	889.8	862.4	851.2	840.0	851.2	862.4	889.8	922.7	957.8
35°	884.8	844.7	811.5	784.2	774.4	764.5	774.4	784.2	811.5	844.7	884.8
37.5°	811.5	769.1	734.4	705.6	694.7	683.9	694.7	705.6	734.4	769.1	811.5
40°	760.4	716.9	682.2	653.4	642.5	631.7	642.5	653.4	682.2	716.9	760.4
42.5°	711.0	667.4	632.7	603.9	592.6	581.3	592.6	603.9	632.7	667.4	711.0
45°	636.2	592.7	559.0	531.0	520.2	509.3	520.2	531.0	559.0	592.7	636.2
47.5°	565.7	522.8	490.2	463.4	454.0	444.7	454.0	463.4	490.2	522.8	565.7
50°	520.7	479.0	446.4	419.0	407.6	396.2	407.6	419.0	446.4	479.0	520.7
52.5°	477.2	435.7	402.2	373.2	357.7	342.2	357.7	373.2	402.2	435.7	477.2
55°	413.7	371.8	334.5	304.3	295.5	286.7	295.5	304.3	334.5	371.8	413.7
57.5°	355.3	317.3	283.4	256.2	249.0	241.7	249.0	256.2	283.4	317.3	355.3
60°	316.5	281.8	253.3	230.1	222.9	215.6	222.9	230.1	253.3	281.8	316.5
62.5°	278.6	247.4	224.7	206.2	200.2	194.2	200.2	206.2	224.7	247.4	278.6
65°	232.2	206.3	187.6	172.4	167.2	162.0	167.2	172.4	187.6	206.3	232.2
67.5°	192.0	171.1	154.7	141.6	138.1	134.7	138.1	141.6	154.7	171.1	192.0
70°	166.1	148.3	134.8	124.1	121.5	118.9	121.5	124.1	134.8	148.3	166.1
72.5°	141.4	126.4	115.8	107.5	105.7	104.0	105.7	107.5	115.8	126.4	141.4
75°	108.4	97.8	90.5	84.8	83.8	82.7	83.8	84.8	90.5	97.8	108.4
77.5°	80.2	72.4	67.0	62.7	61.9	61.1	61.9	62.7	67.0	72.4	80.2
80°	62.2	56.2	52.1	48.9	48.9	48.9	48.9	48.9	52.1	56.2	62.2
82.5°	44.3	40.5	38.4	36.8	36.8	36.8	36.8	36.8	38.4	40.5	44.3
85°	23.2	20.6	17.5	15.0	14.5	14.0	14.5	15.0	17.5	20.6	23.2
87.5°	4.8	3.5	3.1	2.8	2.8	2.8	2.8	2.8	3.1	3.5	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: P1428325

CATALOG NUMBER: SQ2W-PW1-0U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1223.7	1223.7	1223.7	1223.7
2.5°	1227.7	1229.4	1222.3	1215.3
5°	1227.2	1228.5	1219.7	1210.9
7.5°	1222.2	1222.6	1213.7	1204.8
10°	1217.9	1217.9	1208.5	1199.2
12.5°	1212.0	1211.2	1201.5	1191.8
15°	1198.8	1196.6	1186.3	1175.9
17.5°	1180.3	1178.2	1167.8	1157.5
20°	1166.6	1165.2	1154.8	1144.4
22.5°	1148.2	1148.2	1137.0	1125.8
25°	1114.5	1119.6	1108.7	1097.8
27.5°	1069.6	1082.8	1074.0	1065.2
30°	1034.5	1055.3	1048.6	1041.9
32.5°	995.3	1022.8	1020.2	1017.6
35°	931.9	968.5	973.1	977.8
37.5°	861.8	902.9	916.8	930.7
40°	812.7	856.8	876.5	896.2
42.5°	763.3	808.7	833.3	858.0
45°	689.5	736.8	765.8	794.8
47.5°	619.0	666.1	694.9	723.7
50°	571.4	616.5	644.5	672.4
52.5°	526.7	570.1	595.2	620.2
55°	460.3	501.3	525.1	548.9
57.5°	397.5	434.3	454.9	475.5
60°	357.4	392.6	410.7	428.9
62.5°	318.2	352.0	368.1	384.1
65°	265.3	293.2	305.1	317.0
67.5°	217.6	238.5	245.1	251.7
70°	188.4	205.6	207.7	209.8
72.5°	160.7	175.1	174.2	173.4
75°	122.4	131.8	127.7	123.5
77.5°	90.4	96.6	90.4	84.1
80°	69.9	74.2	68.0	61.8
82.5°	50.0	53.1	48.1	43.1
85°	25.3	26.2	23.6	21.0
87.5°	6.8	8.1	6.8	5.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428325
 CATALOG NUMBER: SQ2W-PW1-0U-050D-L840-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	21.20	22.70	21.57	23.02	23.33	17.45	18.95	17.81	19.27	19.58
	3H	22.55	23.89	22.93	24.22	24.58	18.76	20.11	19.14	20.44	20.80
	4H	22.99	24.25	23.39	24.60	24.97	19.30	20.56	19.70	20.91	21.29
	6H	23.20	24.36	23.61	24.73	25.12	19.64	20.80	20.05	21.17	21.56
	8H	23.26	24.36	23.68	24.75	25.15	19.77	20.88	20.20	21.27	21.67
	12H	23.28	24.34	23.71	24.72	25.15	19.82	20.88	20.25	21.26	21.69
4H	2H	21.41	22.67	21.81	23.02	23.40	18.33	19.59	18.73	19.94	20.32
	3H	23.00	24.05	23.41	24.45	24.85	19.83	20.88	20.25	21.28	21.68
	4H	23.57	24.51	24.00	24.93	25.36	20.44	21.37	20.87	21.79	22.23
	6H	23.91	24.73	24.37	25.17	25.63	20.85	21.67	21.31	22.11	22.57
	8H	24.02	24.78	24.48	25.22	25.69	21.01	21.78	21.48	22.22	22.69
	12H	24.07	24.75	24.55	25.23	25.70	21.09	21.76	21.57	22.24	22.71
8H	4H	23.65	24.41	24.12	24.86	25.33	20.82	21.59	21.29	22.03	22.50
	6H	24.10	24.73	24.59	25.22	25.70	21.34	21.97	21.84	22.46	22.94
	8H	24.27	24.83	24.78	25.34	25.83	21.56	22.12	22.07	22.63	23.12
	12H	24.37	24.87	24.88	25.36	25.93	21.67	22.17	22.18	22.66	23.22
12H	4H	23.64	24.32	24.12	24.80	25.27	20.87	21.55	21.35	22.03	22.50
	6H	24.09	24.66	24.61	25.17	25.66	21.41	21.98	21.93	22.49	22.98
	8H	24.31	24.81	24.82	25.30	25.87	21.69	22.18	22.20	22.68	23.24