

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: P1435891

Luminaire Tested: SQ2W-FB-0U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435891
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-0U-075D-L840-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

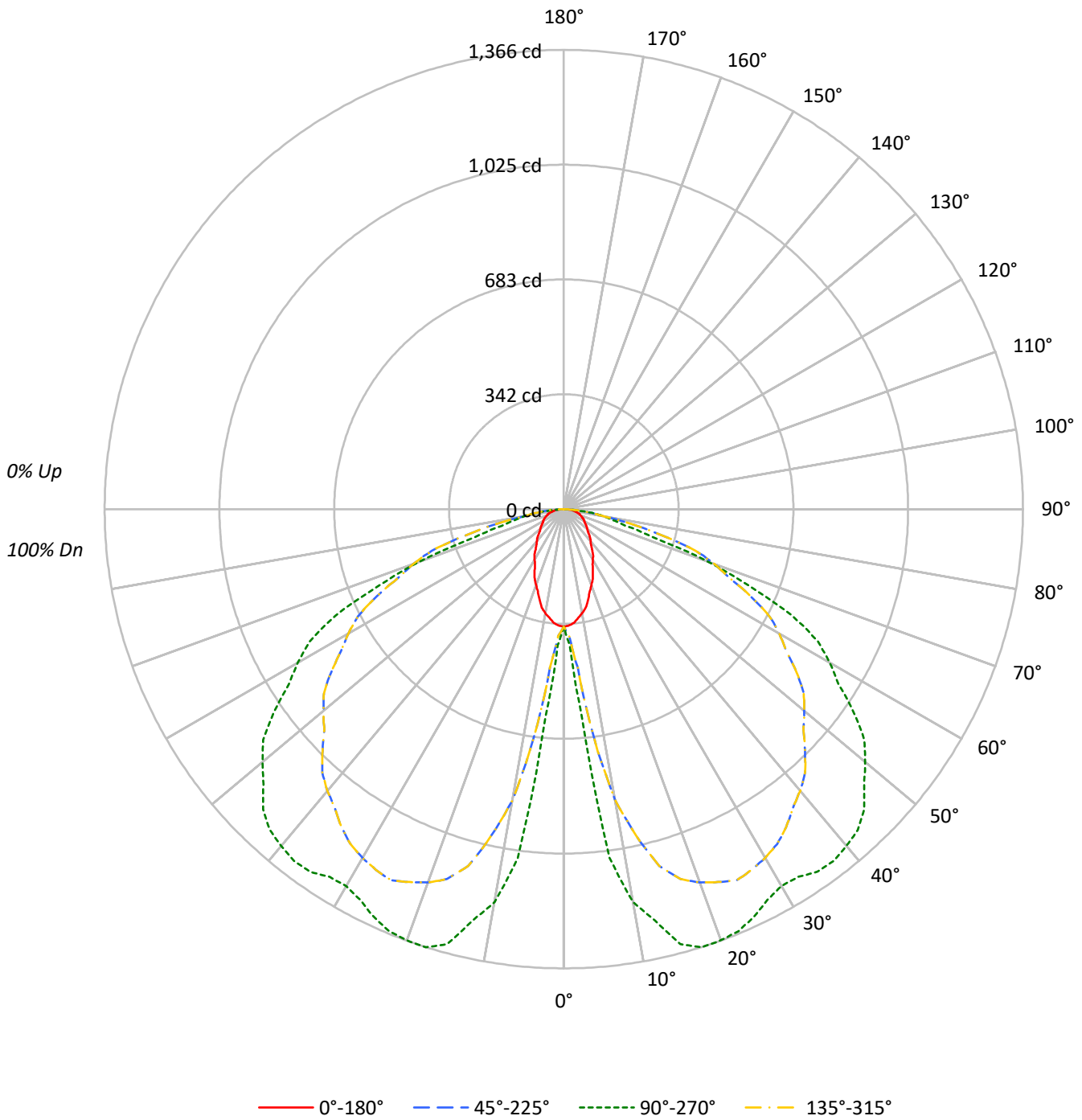
Lumens per Lamp: N/A
Luminaire Lumens: 3453.7 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5646	5646	5646	5646
5°	5504	10000	5504	10000
10°	5154	19459	5154	19459
15°	4665	22397	4665	22397
20°	4130	23455	4130	23455
25°	3654	23840	3654	23840
30°	3229	24134	3229	24134
35°	2884	25946	2884	25946
40°	2622	27568	2622	27568
45°	2418	28866	2418	28866
50°	2281	29391	2281	29391
55°	2224	29624	2224	29624
60°	2280	29479	2280	29479
65°	2376	28645	2376	28645
70°	2459	21668	2459	21668
75°	2726	11959	2726	11959
80°	2817	11102	2817	11102
85°	2797	4668	2797	4668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 29893 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.7
10°-20°	267.3	7.7
20°-30°	470.4	13.6
30°-40°	608.9	17.6
40°-50°	671.6	19.4
50°-60°	626.8	18.1
60°-70°	484.2	14.0
70°-80°	223.2	6.5
80°-90°	42.7	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°	796.3	23.1
0°-40°	1405.2	40.7
0°-60°	2703.6	78.3
0°-90°	3453.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3453.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	350	350	350	350	350	
5°	340	617	340	617	340	32
15°	279	1340	279	1340	279	78
25°	205	1338	205	1338	205	94
35°	146	1316	146	1316	146	92
45°	106	1264	106	1264	106	82
55°	79	1052	79	1052	79	71
65°	62	750	62	750	62	61
75°	44	192	44	192	44	45
85°	15	25	15	25	15	16
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°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	347.0	353.6	360.1	367.2	374.3	382.1	390.5	397.7	401.2	404.8	401.2
5°	339.6	362.0	384.4	416.9	452.8	493.5	539.1	578.1	597.6	617.0	597.6
7.5°	326.5	372.1	417.6	514.2	627.8	745.7	867.9	969.3	1008.2	1047.0	1008.2
10°	314.4	377.9	441.4	605.2	802.5	954.2	1060.3	1145.1	1166.0	1186.9	1166.0
12.5°	300.9	387.2	473.4	675.6	916.5	1074.2	1148.6	1209.8	1231.3	1252.8	1231.3
15°	279.1	402.4	525.6	754.3	1018.0	1180.2	1240.7	1292.1	1316.0	1339.9	1316.0
17.5°	256.5	420.6	584.7	818.0	1074.2	1232.3	1292.3	1340.5	1353.5	1366.5	1353.5
20°	240.4	433.2	626.0	859.6	1107.0	1256.4	1308.0	1348.7	1356.9	1365.1	1356.9
22.5°	225.6	441.1	656.6	890.6	1130.7	1270.3	1309.3	1340.8	1349.6	1358.4	1349.6
25°	205.1	447.9	690.8	924.1	1154.2	1281.6	1306.3	1326.3	1332.2	1338.2	1332.2
27.5°	185.3	441.9	698.4	928.8	1150.4	1269.3	1285.4	1299.0	1304.8	1310.7	1304.8
30°	173.2	433.9	694.7	923.0	1140.4	1255.1	1267.1	1278.1	1286.3	1294.5	1286.3
32.5°	162.4	424.4	686.3	911.8	1125.0	1237.3	1248.7	1261.6	1279.4	1297.2	1279.4
35°	146.3	404.0	661.8	884.9	1096.3	1211.0	1228.9	1250.6	1283.5	1316.4	1283.5
37.5°	132.5	378.0	623.5	844.3	1056.8	1181.8	1219.3	1255.4	1287.0	1318.7	1287.0
40°	124.4	359.8	595.1	814.3	1028.0	1159.8	1209.9	1254.2	1281.1	1308.0	1281.1
42.5°	116.3	339.2	562.0	779.3	994.8	1131.7	1190.2	1240.7	1267.6	1294.5	1267.6
45°	105.9	306.2	506.4	721.8	942.2	1086.8	1155.5	1213.4	1238.8	1264.2	1238.8
47.5°	96.2	270.1	444.1	660.4	890.8	1042.5	1115.4	1174.7	1193.3	1211.8	1193.3
50°	90.8	246.2	401.6	618.7	856.3	1011.0	1082.7	1140.2	1155.2	1170.1	1155.2
52.5°	85.4	222.9	360.4	577.9	822.1	977.9	1045.5	1099.6	1113.3	1127.1	1113.3
55°	79.0	191.1	303.2	518.4	767.9	922.2	981.3	1028.5	1040.5	1052.4	1040.5
57.5°	73.3	163.7	254.1	462.5	710.3	859.4	909.7	949.9	959.7	969.4	959.7
60°	70.6	149.1	227.5	427.6	668.2	811.3	856.8	893.5	903.2	912.9	903.2
62.5°	66.6	134.9	203.2	392.6	622.4	758.4	800.4	834.1	843.2	852.4	843.2
65°	62.2	117.5	172.8	343.5	552.7	674.9	710.0	737.9	743.8	749.8	743.8
67.5°	56.2	103.1	150.0	298.6	481.0	583.2	605.0	618.6	607.4	596.1	607.4
70°	52.1	95.5	138.8	271.2	433.4	518.2	525.6	523.2	491.1	459.0	491.1
72.5°	49.4	88.0	126.5	241.2	381.2	443.0	426.6	399.0	338.2	277.4	338.2
75°	43.7	75.1	106.5	192.8	297.4	313.8	242.1	188.7	190.2	191.7	190.2
77.5°	35.6	59.1	82.6	135.6	198.5	211.0	173.0	144.9	146.3	147.6	146.3
80°	30.3	48.9	67.6	88.5	110.2	120.3	118.8	117.9	118.6	119.4	118.6
82.5°	24.9	38.8	52.7	65.2	77.3	84.1	85.6	86.5	85.4	84.4	85.4
85°	15.1	23.3	31.6	36.4	40.2	39.0	33.1	28.2	26.7	25.2	26.7
87.5°	5.4	8.4	11.4	10.3	7.9	6.7	6.7	6.7	6.7	6.7	6.7
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°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	397.7	390.5	382.1	374.3	367.2	360.1	353.6	347.0	353.6	360.1	367.2
5°	578.1	539.1	493.5	452.8	416.9	384.4	362.0	339.6	362.0	384.4	416.9
7.5°	969.3	867.9	745.7	627.8	514.2	417.6	372.1	326.5	372.1	417.6	514.2
10°	1145.1	1060.3	954.2	802.5	605.2	441.4	377.9	314.4	377.9	441.4	605.2
12.5°	1209.8	1148.6	1074.2	916.5	675.6	473.4	387.2	300.9	387.2	473.4	675.6
15°	1292.1	1240.7	1180.2	1018.0	754.3	525.6	402.4	279.1	402.4	525.6	754.3
17.5°	1340.5	1292.3	1232.3	1074.2	818.0	584.7	420.6	256.5	420.6	584.7	818.0
20°	1348.7	1308.0	1256.4	1107.0	859.6	626.0	433.2	240.4	433.2	626.0	859.6
22.5°	1340.8	1309.3	1270.3	1130.7	890.6	656.6	441.1	225.6	441.1	656.6	890.6
25°	1326.3	1306.3	1281.6	1154.2	924.1	690.8	447.9	205.1	447.9	690.8	924.1
27.5°	1299.0	1285.4	1269.3	1150.4	928.8	698.4	441.9	185.3	441.9	698.4	928.8
30°	1278.1	1267.1	1255.1	1140.4	923.0	694.7	433.9	173.2	433.9	694.7	923.0
32.5°	1261.6	1248.7	1237.3	1125.0	911.8	686.3	424.4	162.4	424.4	686.3	911.8
35°	1250.6	1228.9	1211.0	1096.3	884.9	661.8	404.0	146.3	404.0	661.8	884.9
37.5°	1255.4	1219.3	1181.8	1056.8	844.3	623.5	378.0	132.5	378.0	623.5	844.3
40°	1254.2	1209.9	1159.8	1028.0	814.3	595.1	359.8	124.4	359.8	595.1	814.3
42.5°	1240.7	1190.2	1131.7	994.8	779.3	562.0	339.2	116.3	339.2	562.0	779.3
45°	1213.4	1155.5	1086.8	942.2	721.8	506.4	306.2	105.9	306.2	506.4	721.8
47.5°	1174.7	1115.4	1042.5	890.8	660.4	444.1	270.1	96.2	270.1	444.1	660.4
50°	1140.2	1082.7	1011.0	856.3	618.7	401.6	246.2	90.8	246.2	401.6	618.7
52.5°	1099.6	1045.5	977.9	822.1	577.9	360.4	222.9	85.4	222.9	360.4	577.9
55°	1028.5	981.3	922.2	767.9	518.4	303.2	191.1	79.0	191.1	303.2	518.4
57.5°	949.9	909.7	859.4	710.3	462.5	254.1	163.7	73.3	163.7	254.1	462.5
60°	893.5	856.8	811.3	668.2	427.6	227.5	149.1	70.6	149.1	227.5	427.6
62.5°	834.1	800.4	758.4	622.4	392.6	203.2	134.9	66.6	134.9	203.2	392.6
65°	737.9	710.0	674.9	552.7	343.5	172.8	117.5	62.2	117.5	172.8	343.5
67.5°	618.6	605.0	583.2	481.0	298.6	150.0	103.1	56.2	103.1	150.0	298.6
70°	523.2	525.6	518.2	433.4	271.2	138.8	95.5	52.1	95.5	138.8	271.2
72.5°	399.0	426.6	443.0	381.2	241.2	126.5	88.0	49.4	88.0	126.5	241.2
75°	188.7	242.1	313.8	297.4	192.8	106.5	75.1	43.7	75.1	106.5	192.8
77.5°	144.9	173.0	211.0	198.5	135.6	82.6	59.1	35.6	59.1	82.6	135.6
80°	117.9	118.8	120.3	110.2	88.5	67.6	48.9	30.3	48.9	67.6	88.5
82.5°	86.5	85.6	84.1	77.3	65.2	52.7	38.8	24.9	38.8	52.7	65.2
85°	28.2	33.1	39.0	40.2	36.4	31.6	23.3	15.1	23.3	31.6	36.4
87.5°	6.7	6.7	6.7	7.9	10.3	11.4	8.4	5.4	8.4	11.4	10.3
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°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	374.3	382.1	390.5	397.7	401.2	404.8	401.2	397.7	390.5	382.1	374.3
5°	452.8	493.5	539.1	578.1	597.6	617.0	597.6	578.1	539.1	493.5	452.8
7.5°	627.8	745.7	867.9	969.3	1008.2	1047.0	1008.2	969.3	867.9	745.7	627.8
10°	802.5	954.2	1060.3	1145.1	1166.0	1186.9	1166.0	1145.1	1060.3	954.2	802.5
12.5°	916.5	1074.2	1148.6	1209.8	1231.3	1252.8	1231.3	1209.8	1148.6	1074.2	916.5
15°	1018.0	1180.2	1240.7	1292.1	1316.0	1339.9	1316.0	1292.1	1240.7	1180.2	1018.0
17.5°	1074.2	1232.3	1292.3	1340.5	1353.5	1366.5	1353.5	1340.5	1292.3	1232.3	1074.2
20°	1107.0	1256.4	1308.0	1348.7	1356.9	1365.1	1356.9	1348.7	1308.0	1256.4	1107.0
22.5°	1130.7	1270.3	1309.3	1340.8	1349.6	1358.4	1349.6	1340.8	1309.3	1270.3	1130.7
25°	1154.2	1281.6	1306.3	1326.3	1332.2	1338.2	1332.2	1326.3	1306.3	1281.6	1154.2
27.5°	1150.4	1269.3	1285.4	1299.0	1304.8	1310.7	1304.8	1299.0	1285.4	1269.3	1150.4
30°	1140.4	1255.1	1267.1	1278.1	1286.3	1294.5	1286.3	1278.1	1267.1	1255.1	1140.4
32.5°	1125.0	1237.3	1248.7	1261.6	1279.4	1297.2	1279.4	1261.6	1248.7	1237.3	1125.0
35°	1096.3	1211.0	1228.9	1250.6	1283.5	1316.4	1283.5	1250.6	1228.9	1211.0	1096.3
37.5°	1056.8	1181.8	1219.3	1255.4	1287.0	1318.7	1287.0	1255.4	1219.3	1181.8	1056.8
40°	1028.0	1159.8	1209.9	1254.2	1281.1	1308.0	1281.1	1254.2	1209.9	1159.8	1028.0
42.5°	994.8	1131.7	1190.2	1240.7	1267.6	1294.5	1267.6	1240.7	1190.2	1131.7	994.8
45°	942.2	1086.8	1155.5	1213.4	1238.8	1264.2	1238.8	1213.4	1155.5	1086.8	942.2
47.5°	890.8	1042.5	1115.4	1174.7	1193.3	1211.8	1193.3	1174.7	1115.4	1042.5	890.8
50°	856.3	1011.0	1082.7	1140.2	1155.2	1170.1	1155.2	1140.2	1082.7	1011.0	856.3
52.5°	822.1	977.9	1045.5	1099.6	1113.3	1127.1	1113.3	1099.6	1045.5	977.9	822.1
55°	767.9	922.2	981.3	1028.5	1040.5	1052.4	1040.5	1028.5	981.3	922.2	767.9
57.5°	710.3	859.4	909.7	949.9	959.7	969.4	959.7	949.9	909.7	859.4	710.3
60°	668.2	811.3	856.8	893.5	903.2	912.9	903.2	893.5	856.8	811.3	668.2
62.5°	622.4	758.4	800.4	834.1	843.2	852.4	843.2	834.1	800.4	758.4	622.4
65°	552.7	674.9	710.0	737.9	743.8	749.8	743.8	737.9	710.0	674.9	552.7
67.5°	481.0	583.2	605.0	618.6	607.4	596.1	607.4	618.6	605.0	583.2	481.0
70°	433.4	518.2	525.6	523.2	491.1	459.0	491.1	523.2	525.6	518.2	433.4
72.5°	381.2	443.0	426.6	399.0	338.2	277.4	338.2	399.0	426.6	443.0	381.2
75°	297.4	313.8	242.1	188.7	190.2	191.7	190.2	188.7	242.1	313.8	297.4
77.5°	198.5	211.0	173.0	144.9	146.3	147.6	146.3	144.9	173.0	211.0	198.5
80°	110.2	120.3	118.8	117.9	118.6	119.4	118.6	117.9	118.8	120.3	110.2
82.5°	77.3	84.1	85.6	86.5	85.4	84.4	85.4	86.5	85.6	84.1	77.3
85°	40.2	39.0	33.1	28.2	26.7	25.2	26.7	28.2	33.1	39.0	40.2
87.5°	7.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.9
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: P1435891

CATALOG NUMBER: SQ2W-FB-OU-075D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	349.7	349.7	349.7	349.7
2.5°	367.2	360.1	353.6	347.0
5°	416.9	384.4	362.0	339.6
7.5°	514.2	417.6	372.1	326.5
10°	605.2	441.4	377.9	314.4
12.5°	675.6	473.4	387.2	300.9
15°	754.3	525.6	402.4	279.1
17.5°	818.0	584.7	420.6	256.5
20°	859.6	626.0	433.2	240.4
22.5°	890.6	656.6	441.1	225.6
25°	924.1	690.8	447.9	205.1
27.5°	928.8	698.4	441.9	185.3
30°	923.0	694.7	433.9	173.2
32.5°	911.8	686.3	424.4	162.4
35°	884.9	661.8	404.0	146.3
37.5°	844.3	623.5	378.0	132.5
40°	814.3	595.1	359.8	124.4
42.5°	779.3	562.0	339.2	116.3
45°	721.8	506.4	306.2	105.9
47.5°	660.4	444.1	270.1	96.2
50°	618.7	401.6	246.2	90.8
52.5°	577.9	360.4	222.9	85.4
55°	518.4	303.2	191.1	79.0
57.5°	462.5	254.1	163.7	73.3
60°	427.6	227.5	149.1	70.6
62.5°	392.6	203.2	134.9	66.6
65°	343.5	172.8	117.5	62.2
67.5°	298.6	150.0	103.1	56.2
70°	271.2	138.8	95.5	52.1
72.5°	241.2	126.5	88.0	49.4
75°	192.8	106.5	75.1	43.7
77.5°	135.6	82.6	59.1	35.6
80°	88.5	67.6	48.9	30.3
82.5°	65.2	52.7	38.8	24.9
85°	36.4	31.6	23.3	15.1
87.5°	10.3	11.4	8.4	5.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1435891
 CATALOG NUMBER: SQ2W-FB-0U-075D-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	15.95	17.64	16.32	17.95	18.26	25.55	27.23	25.91	27.55	27.86
	3H	16.95	18.47	17.33	18.80	19.16	27.21	28.74	27.59	29.06	29.42
	4H	17.38	18.82	17.78	19.17	19.54	27.43	28.86	27.82	29.21	29.58
	6H	17.68	19.01	18.09	19.37	19.76	27.54	28.87	27.95	29.24	29.63
	8H	17.80	19.07	18.22	19.46	19.85	27.59	28.86	28.01	29.25	29.64
	12H	17.87	19.09	18.30	19.47	19.90	27.59	28.81	28.02	29.19	29.62
4H	2H	20.77	22.20	21.16	22.55	22.92	26.01	27.45	26.41	27.79	28.17
	3H	21.97	23.17	22.38	23.57	23.97	27.97	29.17	28.38	29.57	29.97
	4H	22.29	23.37	22.72	23.79	24.22	28.23	29.31	28.66	29.73	30.16
	6H	22.47	23.42	22.93	23.86	24.31	28.41	29.36	28.86	29.80	30.25
	8H	22.53	23.42	22.99	23.86	24.32	28.48	29.36	28.94	29.80	30.27
	12H	22.57	23.37	23.05	23.84	24.31	28.50	29.29	28.98	29.77	30.24
8H	4H	23.55	24.44	24.01	24.88	25.34	28.39	29.27	28.85	29.72	30.18
	6H	23.85	24.58	24.34	25.07	25.54	28.63	29.36	29.12	29.85	30.32
	8H	23.96	24.61	24.46	25.12	25.60	28.73	29.38	29.24	29.89	30.37
	12H	24.04	24.62	24.54	25.11	25.67	28.77	29.35	29.28	29.84	30.40
12H	4H	23.62	24.41	24.09	24.88	25.35	28.38	29.18	28.86	29.65	30.12
	6H	23.96	24.62	24.47	25.13	25.61	28.62	29.28	29.13	29.78	30.27
	8H	24.14	24.72	24.65	25.21	25.77	28.76	29.34	29.26	29.83	30.39