

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: P1428229

Luminaire Tested: SQ2W-PR1-K-075U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428229
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-K-075U-050D-L840-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 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

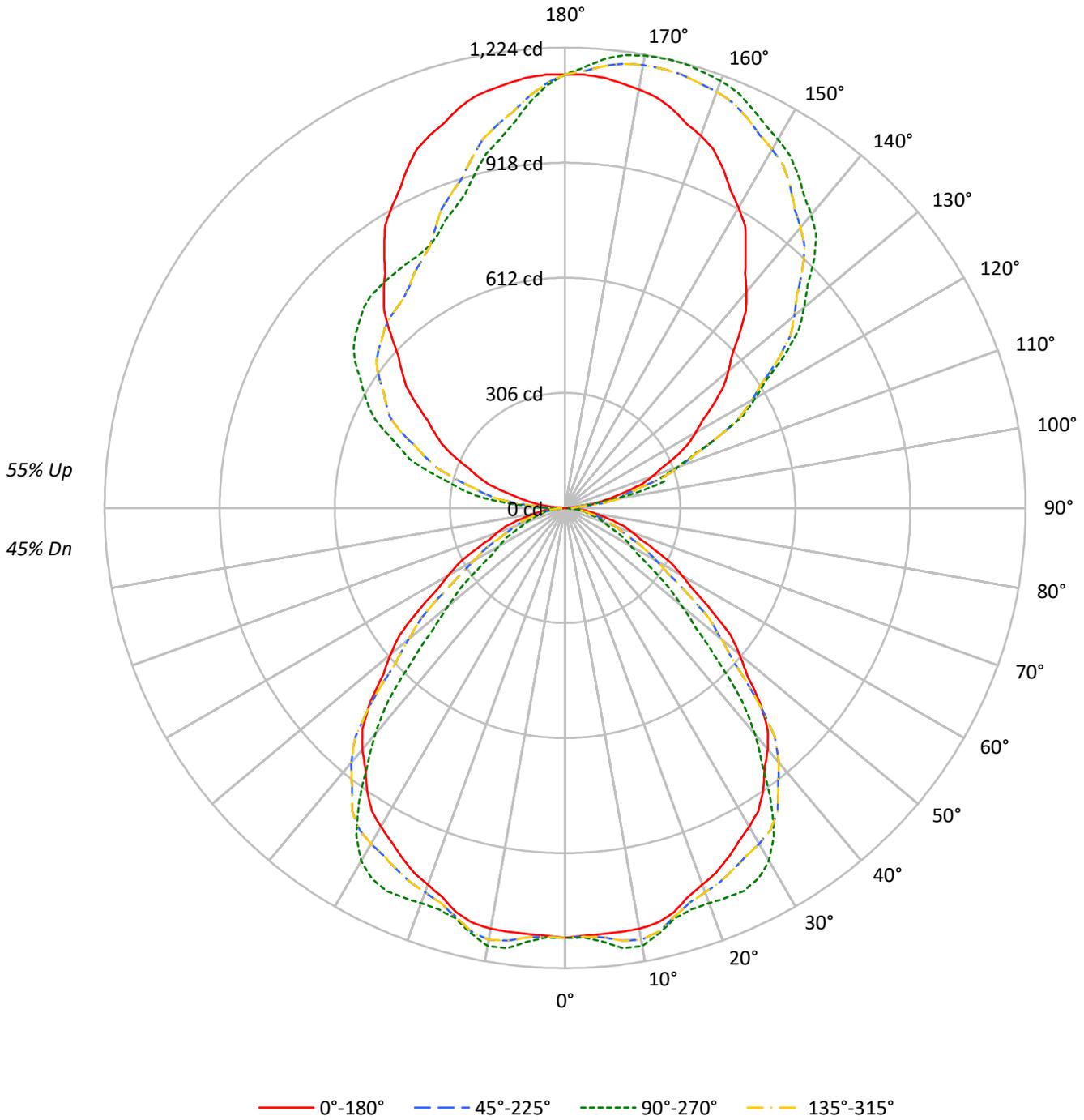
Lumens per Lamp: N/A
Luminaire Lumens: 6120.5 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 41.4
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	97	93	89	86	89	86	82	80	71	69	67	58	57	56	46	45	45	39
2	89	82	76	71	81	75	70	66	63	60	57	52	49	47	41	40	38	34
3	81	72	66	60	75	67	61	56	56	52	48	46	43	41	37	35	33	29
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29	25
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	30	28	26	22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	25	22	20	18
8	54	42	35	30	50	39	33	28	34	29	25	28	24	21	23	20	18	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	16	14
10	47	36	29	24	44	33	27	23	29	23	20	24	20	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18459	18459	18459	18459
5°	18434	18774	18434	18774
10°	18629	19393	18629	19393
15°	18622	18876	18622	18876
20°	18323	19223	18323	19223
25°	18271	20015	18271	20015
30°	18250	20206	18250	20206
35°	18078	18813	18078	18813
40°	17660	16556	17660	16556
45°	16712	13093	16712	13093
50°	15191	10158	15191	10158
55°	13351	7907	13351	7907
60°	11554	6510	11554	6510
65°	9975	5700	9975	5700
70°	8969	5061	8969	5061
75°	8216	4654	8216	4654
80°	7150	4547	7150	4547
85°	5187	2167	5187	2167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 17940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.8
10°-20°	319.6	5.2
20°-30°	494.1	8.1
30°-40°	594.2	9.7
40°-50°	533.6	8.7
50°-60°	357.5	5.8
60°-70°	208.0	3.4
70°-80°	106.8	1.7
80°-90°	31.1	0.5
90°-100°	91.7	1.5
100°-110°	267.5	4.4
110°-120°	436.5	7.1
120°-130°	553.9	9.1
130°-140°	592.7	9.7
140°-150°	553.5	9.0
150°-160°	455.4	7.4
160°-170°	305.4	5.0
170°-180°	108.5	1.8
0°-30°	924.1	15.1
0°-40°	1518.3	24.8
0°-60°	2409.3	39.4
0°-90°	2755.2	45.0
90°-120°	795.8	13.0
90°-150°	2495.9	40.8
90°-180°	3365.0	55.0
0°-180°	6120.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1143	1143	1143	1143	1143	
5°	1137	1158	1137	1158	1137	109
15°	1114	1129	1114	1129	1114	313
25°	1026	1124	1026	1124	1026	473
35°	917	954	917	954	917	572
45°	732	573	732	573	732	560
55°	474	281	474	281	474	426
65°	261	149	261	149	261	264
75°	132	75	132	75	132	140
85°	28	12	28	12	28	35
90°	4	26	4	50	4	4
95°	36	27	36	157	36	44
105°	170	272	170	375	170	181
115°	326	452	326	556	326	321
125°	482	716	482	682	482	431
135°	655	937	655	756	655	506
145°	837	1080	837	772	837	524
155°	994	1174	994	801	994	457
165°	1099	1224	1099	922	1099	309
175°	1149	1198	1149	1082	1149	109
180°	1153	1153	1153	1153	1153	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1138.6	1144.8	1151.0	1148.2	1142.4	1139.7	1140.2	1140.8	1142.0	1143.3	1142.0
5°	1137.4	1146.2	1155.1	1153.0	1147.3	1145.0	1146.0	1148.1	1153.2	1158.4	1153.2
7.5°	1137.2	1149.7	1162.3	1163.2	1160.3	1160.4	1163.4	1167.4	1174.2	1181.0	1174.2
10°	1136.3	1151.3	1166.3	1168.5	1166.4	1165.7	1166.2	1168.4	1175.6	1182.9	1175.6
12.5°	1130.7	1148.2	1165.7	1163.9	1155.6	1151.1	1150.3	1150.8	1154.7	1158.7	1154.7
15°	1114.1	1134.9	1155.6	1147.2	1129.0	1120.7	1122.3	1124.1	1126.7	1129.3	1126.7
17.5°	1085.0	1106.6	1128.3	1120.7	1103.4	1097.6	1103.2	1108.6	1113.7	1118.8	1113.7
20°	1066.4	1087.6	1108.8	1103.6	1089.7	1086.3	1093.5	1101.2	1110.0	1118.8	1110.0
22.5°	1049.6	1070.8	1092.0	1088.7	1077.2	1076.6	1086.7	1097.4	1109.5	1121.6	1109.5
25°	1025.6	1044.2	1062.9	1063.2	1057.5	1063.2	1080.3	1096.5	1110.0	1123.5	1110.0
27.5°	1000.4	1011.4	1022.4	1029.6	1035.6	1050.2	1073.3	1092.9	1102.4	1111.8	1102.4
30°	978.9	986.2	993.4	1006.9	1022.5	1040.3	1060.5	1076.6	1080.2	1083.8	1080.2
32.5°	955.6	960.0	964.3	983.3	1007.1	1024.4	1035.0	1041.9	1037.2	1032.6	1037.2
35°	917.2	920.8	924.4	948.6	979.7	991.1	982.8	974.2	964.3	954.5	964.3
37.5°	871.5	879.0	886.4	906.1	930.0	929.8	905.5	884.5	873.2	861.9	873.2
40°	837.9	850.4	862.8	876.0	889.5	878.1	841.8	811.4	798.4	785.5	798.4
42.5°	796.9	816.8	836.7	839.6	836.9	812.5	766.3	727.7	711.8	696.0	711.8
45°	731.9	758.8	785.7	770.3	740.8	700.9	650.7	608.6	591.0	573.4	591.0
47.5°	655.2	682.9	710.5	681.5	633.5	587.1	542.2	504.5	488.0	471.5	488.0
50°	604.8	627.1	649.4	616.5	565.2	518.6	476.7	440.7	422.5	404.4	422.5
52.5°	553.6	569.6	585.7	553.1	504.3	458.9	417.0	381.4	364.9	348.5	364.9
55°	474.3	482.6	490.9	460.7	417.7	376.3	336.4	303.7	292.3	280.9	292.3
57.5°	401.6	406.9	412.2	383.6	343.7	306.8	272.9	245.4	237.0	228.7	237.0
60°	357.8	361.4	365.0	336.0	296.1	263.0	236.6	215.1	208.3	201.6	208.3
62.5°	317.7	320.5	323.3	295.3	257.1	227.5	206.4	189.4	184.3	179.2	184.3
65°	261.1	263.6	266.2	242.4	209.8	185.4	169.4	156.4	152.8	149.2	152.8
67.5°	216.1	217.4	218.8	199.1	172.5	152.9	140.2	129.9	126.5	123.1	126.5
70°	190.0	190.5	191.0	173.6	150.3	133.0	121.6	112.4	109.8	107.2	109.8
72.5°	166.7	165.9	165.2	149.7	129.3	114.4	105.1	97.7	95.9	94.2	95.9
75°	131.7	130.1	128.6	115.8	99.2	87.8	81.6	76.7	75.6	74.6	75.6
77.5°	98.4	96.7	95.0	84.4	70.7	62.8	60.8	59.2	59.2	59.2	59.2
80°	76.9	74.8	72.8	64.5	54.1	48.9	48.9	48.9	48.9	48.9	48.9
82.5°	57.3	54.4	51.5	46.5	40.7	37.8	37.8	37.7	37.2	36.8	37.2
85°	28.0	25.4	22.8	22.1	22.1	20.6	17.5	14.8	13.2	11.7	13.2
87.5°	8.2	9.1	10.3	9.6	8.3	7.5	7.5	7.7	7.9	7.9	7.9
90°	3.5	8.1	14.0	18.6	22.1	23.3	23.3	24.4	25.6	25.6	25.6
92.5°	12.8	20.3	20.5	20.5	24.9	27.0	28.9	29.1	30.3	30.3	30.3
95°	36.1	39.6	59.4	58.2	39.6	31.4	26.8	26.8	26.8	26.8	26.8
97.5°	68.9	74.0	77.3	103.6	109.4	105.7	86.2	72.4	64.7	61.2	64.7
100°	97.8	100.1	107.1	108.3	137.4	165.3	151.3	133.9	128.1	124.6	128.1
102.5°	126.7	128.1	138.8	143.7	150.4	166.2	214.7	209.3	205.4	204.7	205.4
105°	170.0	171.1	190.9	200.2	204.9	204.9	203.7	227.0	264.3	272.4	264.3
107.5°	216.3	221.7	244.9	269.9	275.2	276.6	270.6	267.1	265.7	266.6	265.7
110°	248.0	256.1	284.1	315.5	323.6	326.0	323.6	320.2	317.8	317.8	317.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	278.7	290.6	322.3	358.3	372.1	379.1	373.9	371.4	369.1	370.9	369.1
115°	326.0	343.4	385.4	422.6	450.5	454.0	452.9	452.9	451.7	451.7	451.7
117.5°	369.7	397.7	444.7	488.0	520.4	529.7	534.4	533.0	531.6	533.9	531.6
120°	400.5	433.1	486.6	535.5	567.0	580.9	585.6	583.3	585.6	583.3	585.6
122.5°	433.1	473.1	525.8	576.5	613.5	629.4	635.0	635.4	635.9	634.5	635.9
125°	482.0	530.9	592.6	645.0	683.4	702.0	706.7	707.8	710.2	716.0	710.2
127.5°	531.3	586.8	654.5	705.0	744.4	767.0	774.2	776.8	781.6	784.2	781.6
130°	565.8	628.7	697.4	745.1	783.5	808.0	820.8	824.3	830.1	828.9	830.1
132.5°	602.1	667.8	737.4	787.0	822.6	848.9	859.9	869.9	872.0	873.6	872.0
135°	655.4	726.5	796.3	845.2	879.0	904.6	918.6	927.9	933.7	937.2	933.7
137.5°	711.6	786.5	853.6	897.1	931.1	953.2	969.1	978.9	984.9	987.7	984.9
140°	749.7	821.9	887.1	932.5	962.8	984.9	998.9	1010.5	1017.5	1017.5	1017.5
142.5°	786.1	857.3	920.6	966.1	992.6	1012.9	1027.8	1036.6	1044.5	1044.5	1044.5
145°	837.1	908.1	966.3	1011.7	1033.8	1052.4	1068.7	1075.7	1080.4	1080.4	1080.4
147.5°	890.4	953.2	1006.3	1049.9	1068.5	1090.4	1103.2	1108.8	1114.6	1112.0	1114.6
150°	922.0	980.3	1031.5	1072.2	1090.9	1111.8	1124.6	1129.3	1135.1	1131.6	1135.1
152.5°	952.8	1008.2	1054.8	1092.7	1108.6	1129.5	1144.2	1148.8	1152.8	1150.2	1152.8
155°	994.2	1043.1	1086.2	1121.1	1135.1	1154.9	1168.9	1174.7	1179.3	1173.5	1179.3
157.5°	1031.2	1073.4	1110.9	1143.0	1157.9	1174.9	1187.9	1195.2	1199.8	1197.3	1199.8
160°	1053.6	1092.0	1125.8	1156.1	1170.0	1185.2	1199.1	1207.3	1211.9	1208.4	1211.9
162.5°	1072.2	1106.9	1138.8	1166.3	1178.4	1191.7	1208.4	1215.7	1220.3	1215.9	1220.3
165°	1099.0	1126.9	1154.9	1178.2	1188.6	1199.1	1216.6	1224.7	1228.2	1223.6	1228.2
167.5°	1119.3	1140.7	1163.3	1183.3	1191.0	1201.2	1218.7	1225.4	1229.9	1224.0	1229.9
170°	1130.4	1149.1	1168.9	1185.2	1191.0	1200.3	1217.8	1223.6	1227.1	1221.2	1227.1
172.5°	1139.8	1153.7	1169.8	1184.2	1187.3	1194.7	1211.2	1217.1	1219.6	1214.7	1219.6
175°	1149.1	1157.2	1168.9	1178.2	1177.0	1181.7	1195.6	1200.3	1204.9	1198.0	1204.9
177.5°	1153.5	1157.2	1160.9	1166.5	1162.8	1162.8	1173.0	1175.8	1176.8	1173.0	1176.8
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1140.8	1140.2	1139.7	1142.4	1148.2	1151.0	1144.8	1138.6	1144.8	1151.0	1148.2
5°	1148.1	1146.0	1145.0	1147.3	1153.0	1155.1	1146.2	1137.4	1146.2	1155.1	1153.0
7.5°	1167.4	1163.4	1160.4	1160.3	1163.2	1162.3	1149.7	1137.2	1149.7	1162.3	1163.2
10°	1168.4	1166.2	1165.7	1166.4	1168.5	1166.3	1151.3	1136.3	1151.3	1166.3	1168.5
12.5°	1150.8	1150.3	1151.1	1155.6	1163.9	1165.7	1148.2	1130.7	1148.2	1165.7	1163.9
15°	1124.1	1122.3	1120.7	1129.0	1147.2	1155.6	1134.9	1114.1	1134.9	1155.6	1147.2
17.5°	1108.6	1103.2	1097.6	1103.4	1120.7	1128.3	1106.6	1085.0	1106.6	1128.3	1120.7
20°	1101.2	1093.5	1086.3	1089.7	1103.6	1108.8	1087.6	1066.4	1087.6	1108.8	1103.6
22.5°	1097.4	1086.7	1076.6	1077.2	1088.7	1092.0	1070.8	1049.6	1070.8	1092.0	1088.7
25°	1096.5	1080.3	1063.2	1057.5	1063.2	1062.9	1044.2	1025.6	1044.2	1062.9	1063.2
27.5°	1092.9	1073.3	1050.2	1035.6	1029.6	1022.4	1011.4	1000.4	1011.4	1022.4	1029.6
30°	1076.6	1060.5	1040.3	1022.5	1006.9	993.4	986.2	978.9	986.2	993.4	1006.9
32.5°	1041.9	1035.0	1024.4	1007.1	983.3	964.3	960.0	955.6	960.0	964.3	983.3
35°	974.2	982.8	991.1	979.7	948.6	924.4	920.8	917.2	920.8	924.4	948.6
37.5°	884.5	905.5	929.8	930.0	906.1	886.4	879.0	871.5	879.0	886.4	906.1
40°	811.4	841.8	878.1	889.5	876.0	862.8	850.4	837.9	850.4	862.8	876.0
42.5°	727.7	766.3	812.5	836.9	839.6	836.7	816.8	796.9	816.8	836.7	839.6
45°	608.6	650.7	700.9	740.8	770.3	785.7	758.8	731.9	758.8	785.7	770.3
47.5°	504.5	542.2	587.1	633.5	681.5	710.5	682.9	655.2	682.9	710.5	681.5
50°	440.7	476.7	518.6	565.2	616.5	649.4	627.1	604.8	627.1	649.4	616.5
52.5°	381.4	417.0	458.9	504.3	553.1	585.7	569.6	553.6	569.6	585.7	553.1
55°	303.7	336.4	376.3	417.7	460.7	490.9	482.6	474.3	482.6	490.9	460.7
57.5°	245.4	272.9	306.8	343.7	383.6	412.2	406.9	401.6	406.9	412.2	383.6
60°	215.1	236.6	263.0	296.1	336.0	365.0	361.4	357.8	361.4	365.0	336.0
62.5°	189.4	206.4	227.5	257.1	295.3	323.3	320.5	317.7	320.5	323.3	295.3
65°	156.4	169.4	185.4	209.8	242.4	266.2	263.6	261.1	263.6	266.2	242.4
67.5°	129.9	140.2	152.9	172.5	199.1	218.8	217.4	216.1	217.4	218.8	199.1
70°	112.4	121.6	133.0	150.3	173.6	191.0	190.5	190.0	190.5	191.0	173.6
72.5°	97.7	105.1	114.4	129.3	149.7	165.2	165.9	166.7	165.9	165.2	149.7
75°	76.7	81.6	87.8	99.2	115.8	128.6	130.1	131.7	130.1	128.6	115.8
77.5°	59.2	60.8	62.8	70.7	84.4	95.0	96.7	98.4	96.7	95.0	84.4
80°	48.9	48.9	48.9	54.1	64.5	72.8	74.8	76.9	74.8	72.8	64.5
82.5°	37.7	37.8	37.8	40.7	46.5	51.5	54.4	57.3	54.4	51.5	46.5
85°	14.8	17.5	20.6	22.1	22.1	22.8	25.4	28.0	25.4	22.8	22.1
87.5°	7.7	7.5	7.5	8.3	9.6	10.3	9.1	8.2	9.1	10.0	10.1
90°	24.4	23.3	23.3	22.1	18.6	14.0	8.1	3.5	8.1	12.8	21.0
92.5°	29.1	28.9	27.0	24.9	20.5	20.5	20.3	12.8	22.1	31.4	45.2
95°	26.8	26.8	31.4	39.6	58.2	59.4	39.6	36.1	51.2	72.2	90.8
97.5°	72.4	86.2	105.7	109.4	103.6	77.3	74.0	68.9	93.8	114.6	144.6
100°	133.9	151.3	165.3	137.4	108.3	107.1	100.1	97.8	124.6	144.4	173.5
102.5°	209.3	214.7	166.2	150.4	143.7	138.8	128.1	126.7	153.4	180.7	205.1
105°	227.0	203.7	204.9	204.9	200.2	190.9	171.1	170.0	200.2	231.7	261.9
107.5°	267.1	270.6	276.6	275.2	269.9	244.9	221.7	216.3	243.6	281.3	314.6
110°	320.2	323.6	326.0	323.6	315.5	284.1	256.1	248.0	272.4	312.0	348.1



TEST NUMBER: P1428229

CATALOG NUMBER: SQ2W-PR1-K-075U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	371.4	373.9	379.1	372.1	358.3	322.3	290.6	278.7	303.2	343.7	380.7
115°	452.9	452.9	454.0	450.5	422.6	385.4	343.4	326.0	346.9	384.2	424.9
117.5°	533.0	534.4	529.7	520.4	488.0	444.7	397.7	369.7	386.3	425.6	467.5
120°	583.3	585.6	580.9	567.0	535.5	486.6	433.1	400.5	413.3	451.7	493.6
122.5°	635.4	635.0	629.4	613.5	576.5	525.8	473.1	433.1	438.4	474.1	515.0
125°	707.8	706.7	702.0	683.4	645.0	592.6	530.9	482.0	475.0	505.3	547.2
127.5°	776.8	774.2	767.0	744.4	705.0	654.5	586.8	531.3	515.7	534.8	573.3
130°	824.3	820.8	808.0	783.5	745.1	697.4	628.7	565.8	543.7	555.3	589.1
132.5°	869.9	859.9	848.9	822.6	787.0	737.4	667.8	602.1	571.6	576.7	603.1
135°	927.9	918.6	904.6	879.0	845.2	796.3	726.5	655.4	613.5	608.9	624.0
137.5°	978.9	969.1	953.2	931.1	897.1	853.6	786.5	711.6	658.7	643.1	648.9
140°	1010.5	998.9	984.9	962.8	932.5	887.1	821.9	749.7	690.4	668.3	664.8
142.5°	1036.6	1027.8	1012.9	992.6	966.1	920.6	857.3	786.1	723.0	694.3	686.2
145°	1075.7	1068.7	1052.4	1033.8	1011.7	966.3	908.1	837.1	774.2	736.9	719.5
147.5°	1108.8	1103.2	1090.4	1068.5	1049.9	1006.3	953.2	890.4	825.9	779.8	757.2
150°	1129.3	1124.6	1111.8	1090.9	1072.2	1031.5	980.3	922.0	860.3	811.4	782.3
152.5°	1148.8	1144.2	1129.5	1108.6	1092.7	1054.8	1008.2	952.8	890.1	841.3	811.2
155°	1174.7	1168.9	1154.9	1135.1	1121.1	1086.2	1043.1	994.2	940.7	889.4	855.7
157.5°	1195.2	1187.9	1174.9	1157.9	1143.0	1110.9	1073.4	1031.2	984.4	935.6	901.1
160°	1207.3	1199.1	1185.2	1170.0	1156.1	1125.8	1092.0	1053.6	1010.5	966.3	929.0
162.5°	1215.7	1208.4	1191.7	1178.4	1166.3	1138.8	1106.9	1072.2	1033.8	995.2	960.7
165°	1224.7	1216.6	1199.1	1188.6	1178.2	1154.9	1126.9	1099.0	1066.4	1035.0	1007.0
167.5°	1225.4	1218.7	1201.2	1191.0	1183.3	1163.3	1140.7	1119.3	1093.9	1069.2	1045.9
170°	1223.6	1217.8	1200.3	1191.0	1185.2	1168.9	1149.1	1130.4	1110.6	1089.7	1071.1
172.5°	1217.1	1211.2	1194.7	1187.3	1184.2	1169.8	1153.7	1139.8	1122.8	1107.4	1092.5
175°	1200.3	1195.6	1181.7	1177.0	1178.2	1168.9	1157.2	1149.1	1138.6	1129.3	1121.1
177.5°	1175.8	1173.0	1162.8	1162.8	1166.5	1160.9	1157.2	1153.5	1148.8	1146.0	1143.2
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



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CATALOG NUMBER: SQ2W-PR1-K-075U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1142.4	1139.7	1140.2	1140.8	1142.0	1143.3	1142.0	1140.8	1140.2	1139.7	1142.4
5°	1147.3	1145.0	1146.0	1148.1	1153.2	1158.4	1153.2	1148.1	1146.0	1145.0	1147.3
7.5°	1160.3	1160.4	1163.4	1167.4	1174.2	1181.0	1174.2	1167.4	1163.4	1160.4	1160.3
10°	1166.4	1165.7	1166.2	1168.4	1175.6	1182.9	1175.6	1168.4	1166.2	1165.7	1166.4
12.5°	1155.6	1151.1	1150.3	1150.8	1154.7	1158.7	1154.7	1150.8	1150.3	1151.1	1155.6
15°	1129.0	1120.7	1122.3	1124.1	1126.7	1129.3	1126.7	1124.1	1122.3	1120.7	1129.0
17.5°	1103.4	1097.6	1103.2	1108.6	1113.7	1118.8	1113.7	1108.6	1103.2	1097.6	1103.4
20°	1089.7	1086.3	1093.5	1101.2	1110.0	1118.8	1110.0	1101.2	1093.5	1086.3	1089.7
22.5°	1077.2	1076.6	1086.7	1097.4	1109.5	1121.6	1109.5	1097.4	1086.7	1076.6	1077.2
25°	1057.5	1063.2	1080.3	1096.5	1110.0	1123.5	1110.0	1096.5	1080.3	1063.2	1057.5
27.5°	1035.6	1050.2	1073.3	1092.9	1102.4	1111.8	1102.4	1092.9	1073.3	1050.2	1035.6
30°	1022.5	1040.3	1060.5	1076.6	1080.2	1083.8	1080.2	1076.6	1060.5	1040.3	1022.5
32.5°	1007.1	1024.4	1035.0	1041.9	1037.2	1032.6	1037.2	1041.9	1035.0	1024.4	1007.1
35°	979.7	991.1	982.8	974.2	964.3	954.5	964.3	974.2	982.8	991.1	979.7
37.5°	930.0	929.8	905.5	884.5	873.2	861.9	873.2	884.5	905.5	929.8	930.0
40°	889.5	878.1	841.8	811.4	798.4	785.5	798.4	811.4	841.8	878.1	889.5
42.5°	836.9	812.5	766.3	727.7	711.8	696.0	711.8	727.7	766.3	812.5	836.9
45°	740.8	700.9	650.7	608.6	591.0	573.4	591.0	608.6	650.7	700.9	740.8
47.5°	633.5	587.1	542.2	504.5	488.0	471.5	488.0	504.5	542.2	587.1	633.5
50°	565.2	518.6	476.7	440.7	422.5	404.4	422.5	440.7	476.7	518.6	565.2
52.5°	504.3	458.9	417.0	381.4	364.9	348.5	364.9	417.0	458.9	504.3	504.3
55°	417.7	376.3	336.4	303.7	292.3	280.9	292.3	303.7	336.4	376.3	417.7
57.5°	343.7	306.8	272.9	245.4	237.0	228.7	237.0	245.4	272.9	306.8	343.7
60°	296.1	263.0	236.6	215.1	208.3	201.6	208.3	215.1	236.6	263.0	296.1
62.5°	257.1	227.5	206.4	189.4	184.3	179.2	184.3	189.4	206.4	227.5	257.1
65°	209.8	185.4	169.4	156.4	152.8	149.2	152.8	156.4	169.4	185.4	209.8
67.5°	172.5	152.9	140.2	129.9	126.5	123.1	126.5	129.9	140.2	152.9	172.5
70°	150.3	133.0	121.6	112.4	109.8	107.2	109.8	112.4	121.6	133.0	150.3
72.5°	129.3	114.4	105.1	97.7	95.9	94.2	95.9	97.7	105.1	114.4	129.3
75°	99.2	87.8	81.6	76.7	75.6	74.6	75.6	76.7	81.6	87.8	99.2
77.5°	70.7	62.8	60.8	59.2	59.2	59.2	59.2	59.2	60.8	62.8	70.7
80°	54.1	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	54.1
82.5°	40.7	37.8	37.8	37.7	37.2	36.8	37.2	37.7	37.8	37.8	40.7
85°	22.1	20.6	17.5	14.8	13.2	11.7	13.2	14.8	17.5	20.6	22.1
87.5°	9.2	9.8	11.4	12.3	13.3	12.8	13.3	12.3	11.4	9.8	9.2
90°	26.8	34.9	43.1	47.7	52.4	50.1	52.4	47.7	43.1	34.9	26.8
92.5°	53.8	67.5	77.5	85.9	89.6	89.2	89.6	85.9	77.5	67.5	53.8
95°	108.3	124.6	140.9	152.5	159.5	157.2	159.5	152.5	140.9	124.6	108.3
97.5°	166.9	188.8	207.0	217.9	224.9	229.6	224.9	217.9	207.0	188.8	166.9
100°	206.1	227.0	248.0	260.8	272.4	277.1	272.4	260.8	248.0	227.0	206.1
102.5°	237.7	265.2	288.0	301.8	311.5	316.2	311.5	301.8	288.0	265.2	237.7
105°	289.9	319.0	343.4	360.9	371.4	374.9	371.4	360.9	343.4	319.0	289.9
107.5°	342.0	372.1	394.7	414.0	426.8	434.2	426.8	414.0	394.7	372.1	342.0
110°	383.0	407.5	431.9	449.4	462.2	466.8	462.2	449.4	431.9	407.5	383.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	417.5	444.7	469.2	486.6	501.3	507.8	501.3	486.6	469.2	444.7	417.5
115°	465.7	501.8	523.9	540.2	550.7	556.5	550.7	540.2	523.9	501.8	465.7
117.5°	505.7	543.4	567.7	580.2	585.1	589.3	585.1	580.2	567.7	543.4	505.7
120°	530.9	565.8	593.7	610.0	615.9	618.2	615.9	610.0	593.7	565.8	530.9
122.5°	554.2	587.2	614.2	634.3	643.8	646.1	643.8	634.3	614.2	587.2	554.2
125°	586.8	618.2	646.1	665.9	676.4	682.2	676.4	665.9	646.1	618.2	586.8
127.5°	615.2	649.2	674.8	692.7	702.9	707.6	702.9	692.7	674.8	649.2	615.2
130°	631.0	665.9	691.5	711.3	720.6	725.3	720.6	711.3	691.5	665.9	631.0
132.5°	643.1	679.9	706.4	724.4	734.6	739.3	734.6	724.4	706.4	679.9	643.1
135°	657.8	696.2	724.1	741.6	750.9	755.6	750.9	741.6	724.1	696.2	657.8
137.5°	670.6	705.5	734.6	753.0	761.4	764.4	761.4	753.0	734.6	705.5	670.6
140°	679.9	710.2	739.3	756.7	766.0	767.2	766.0	756.7	739.3	710.2	679.9
142.5°	692.0	715.7	741.1	758.6	767.9	770.0	767.9	758.6	741.1	715.7	692.0
145°	713.7	727.6	745.1	761.4	769.5	771.9	769.5	761.4	745.1	727.6	713.7
147.5°	740.9	745.3	754.4	765.1	773.0	774.7	773.0	765.1	754.4	745.3	740.9
150°	761.4	760.2	763.7	770.7	777.7	776.5	777.7	770.7	763.7	760.2	761.4
152.5°	784.7	777.9	777.7	780.9	784.2	784.0	784.2	780.9	777.7	777.9	784.7
155°	824.3	811.4	804.5	802.1	802.1	801.0	802.1	802.1	804.5	811.4	824.3
157.5°	867.8	849.9	839.4	833.8	832.2	829.6	832.2	833.8	839.4	849.9	867.8
160°	897.6	877.8	867.3	858.0	854.5	851.0	854.5	858.0	867.3	877.8	897.6
162.5°	925.5	906.7	895.3	886.9	883.4	878.0	883.4	886.9	895.3	906.7	925.5
165°	970.9	951.2	938.3	931.4	926.7	922.0	926.7	931.4	938.3	951.2	970.9
167.5°	1016.3	994.7	986.3	978.4	974.0	965.6	974.0	978.4	986.3	994.7	1016.3
170°	1044.3	1024.5	1019.8	1012.9	1004.7	995.4	1004.7	1012.9	1019.8	1024.5	1044.3
172.5°	1068.5	1055.2	1050.6	1043.6	1041.0	1033.6	1041.0	1043.6	1050.6	1055.2	1068.5
175°	1103.7	1093.2	1093.2	1092.0	1088.5	1081.5	1088.5	1092.0	1093.2	1093.2	1103.7
177.5°	1133.0	1127.4	1131.1	1131.1	1130.2	1123.7	1130.2	1131.1	1131.1	1127.4	1133.0
180°	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1428229

CATALOG NUMBER: SQ2W-PR1-K-075U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1143.3	1143.3	1143.3	1143.3
2.5°	1148.2	1151.0	1144.8	1138.6
5°	1153.0	1155.1	1146.2	1137.4
7.5°	1163.2	1162.3	1149.7	1137.2
10°	1168.5	1166.3	1151.3	1136.3
12.5°	1163.9	1165.7	1148.2	1130.7
15°	1147.2	1155.6	1134.9	1114.1
17.5°	1120.7	1128.3	1106.6	1085.0
20°	1103.6	1108.8	1087.6	1066.4
22.5°	1088.7	1092.0	1070.8	1049.6
25°	1063.2	1062.9	1044.2	1025.6
27.5°	1029.6	1022.4	1011.4	1000.4
30°	1006.9	993.4	986.2	978.9
32.5°	983.3	964.3	960.0	955.6
35°	948.6	924.4	920.8	917.2
37.5°	906.1	886.4	879.0	871.5
40°	876.0	862.8	850.4	837.9
42.5°	839.6	836.7	816.8	796.9
45°	770.3	785.7	758.8	731.9
47.5°	681.5	710.5	682.9	655.2
50°	616.5	649.4	627.1	604.8
52.5°	553.1	585.7	569.6	553.6
55°	460.7	490.9	482.6	474.3
57.5°	383.6	412.2	406.9	401.6
60°	336.0	365.0	361.4	357.8
62.5°	295.3	323.3	320.5	317.7
65°	242.4	266.2	263.6	261.1
67.5°	199.1	218.8	217.4	216.1
70°	173.6	191.0	190.5	190.0
72.5°	149.7	165.2	165.9	166.7
75°	115.8	128.6	130.1	131.7
77.5°	84.4	95.0	96.7	98.4
80°	64.5	72.8	74.8	76.9
82.5°	46.5	51.5	54.4	57.3
85°	22.1	22.8	25.4	28.0
87.5°	10.1	10.0	9.1	8.2
90°	21.0	12.8	8.1	3.5
92.5°	45.2	31.4	22.1	12.8
95°	90.8	72.2	51.2	36.1
97.5°	144.6	114.6	93.8	68.9
100°	173.5	144.4	124.6	97.8
102.5°	205.1	180.7	153.4	126.7
105°	261.9	231.7	200.2	170.0
107.5°	314.6	281.3	243.6	216.3
110°	348.1	312.0	272.4	248.0



TEST NUMBER: P1428229

CATALOG NUMBER: SQ2W-PR1-K-075U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	380.7	343.7	303.2	278.7
115°	424.9	384.2	346.9	326.0
117.5°	467.5	425.6	386.3	369.7
120°	493.6	451.7	413.3	400.5
122.5°	515.0	474.1	438.4	433.1
125°	547.2	505.3	475.0	482.0
127.5°	573.3	534.8	515.7	531.3
130°	589.1	555.3	543.7	565.8
132.5°	603.1	576.7	571.6	602.1
135°	624.0	608.9	613.5	655.4
137.5°	648.9	643.1	658.7	711.6
140°	664.8	668.3	690.4	749.7
142.5°	686.2	694.3	723.0	786.1
145°	719.5	736.9	774.2	837.1
147.5°	757.2	779.8	825.9	890.4
150°	782.3	811.4	860.3	922.0
152.5°	811.2	841.3	890.1	952.8
155°	855.7	889.4	940.7	994.2
157.5°	901.1	935.6	984.4	1031.2
160°	929.0	966.3	1010.5	1053.6
162.5°	960.7	995.2	1033.8	1072.2
165°	1007.0	1035.0	1066.4	1099.0
167.5°	1045.9	1069.2	1093.9	1119.3
170°	1071.1	1089.7	1110.6	1130.4
172.5°	1092.5	1107.4	1122.8	1139.8
175°	1121.1	1129.3	1138.6	1149.1
177.5°	1143.2	1146.0	1148.8	1153.5
180°	1152.6	1152.6	1152.6	1152.6



TEST NUMBER: P1428229

CATALOG NUMBER: SQ2W-PR1-K-075U-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	16.31	17.10	17.32	18.11	19.45	12.68	13.47	13.69	14.48	15.82
	3H	17.52	18.21	18.53	19.24	20.60	13.84	14.54	14.86	15.56	16.92
	4H	18.00	18.66	19.03	19.68	21.05	14.30	14.96	15.33	15.98	17.36
	6H	18.29	18.90	19.33	19.93	21.31	14.64	15.24	15.68	16.27	17.66
	8H	18.39	18.97	19.44	20.01	21.39	14.77	15.35	15.82	16.39	17.77
	12H	18.43	18.98	19.48	20.01	21.42	14.80	15.35	15.85	16.39	17.79
4H	2H	16.41	17.07	17.44	18.09	19.47	13.38	14.05	14.42	15.07	16.44
	3H	17.86	18.41	18.91	19.46	20.85	14.73	15.28	15.78	16.33	17.72
	4H	18.49	18.99	19.54	20.03	21.44	15.28	15.78	16.33	16.82	18.23
	6H	18.91	19.34	19.97	20.41	21.81	15.70	16.13	16.76	17.20	18.60
	8H	19.07	19.47	20.13	20.53	21.95	15.89	16.29	16.95	17.35	18.76
	12H	19.13	19.50	20.21	20.57	21.99	15.93	16.29	17.01	17.37	18.79
8H	4H	18.51	18.91	19.57	19.97	21.39	15.60	16.00	16.66	17.06	18.48
	6H	19.04	19.37	20.12	20.47	21.88	16.13	16.47	17.22	17.57	18.98
	8H	19.27	19.56	20.36	20.65	22.08	16.40	16.69	17.49	17.77	19.21
	12H	19.39	19.64	20.48	20.72	22.20	16.49	16.74	17.58	17.82	19.30
12H	4H	18.46	18.82	19.54	19.90	21.32	15.61	15.98	16.69	17.05	18.47
	6H	19.03	19.32	20.12	20.40	21.84	16.21	16.50	17.30	17.58	19.02
	8H	19.27	19.53	20.37	20.61	22.09	16.49	16.75	17.59	17.83	19.30