

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: P1427869

Luminaire Tested: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427869
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-K-050U-050D-L840-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 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

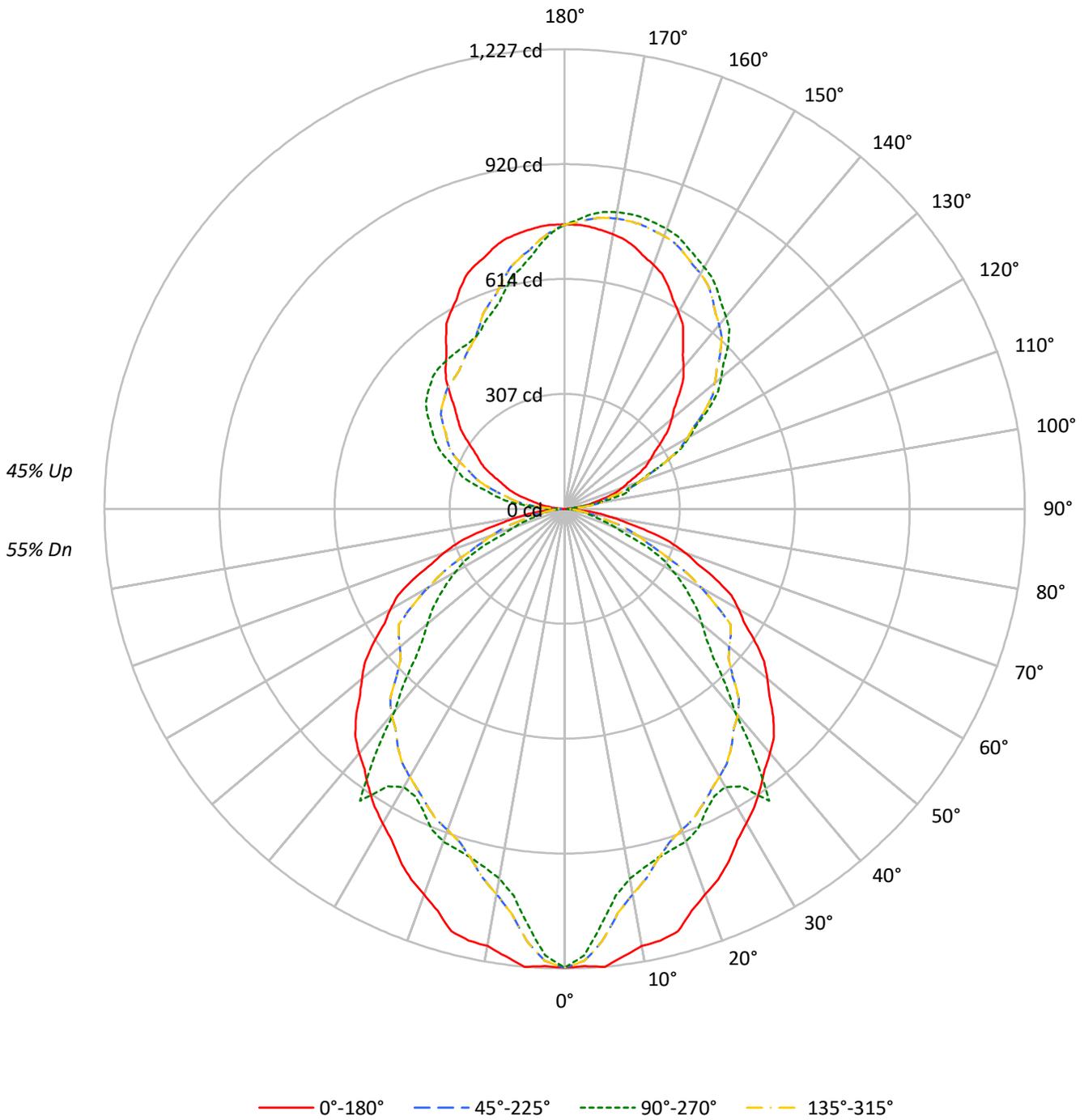
Lumens per Lamp: N/A
Luminaire Lumens: 4926.4 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.7
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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	22	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19775	19775	19775	19775
5°	19890	18076	19890	18076
10°	19431	16432	19431	16432
15°	19518	16110	19518	16110
20°	18823	16238	18823	16238
25°	18477	15862	18477	15862
30°	18077	15990	18077	15990
35°	17940	18744	17940	18744
40°	17955	14861	17955	14861
45°	17963	12800	17963	12800
50°	17711	12001	17711	12001
55°	17486	11516	17486	11516
60°	17311	10801	17311	10801
65°	17008	9394	17008	9394
70°	16064	6713	16064	6713
75°	14323	5090	14323	5090
80°	11706	4770	11706	4770
85°	7336	3242	7336	3242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	2.2
10°-20°	283.5	5.8
20°-30°	415.6	8.4
30°-40°	503.3	10.2
40°-50°	494.9	10.0
50°-60°	430.5	8.7
60°-70°	299.4	6.1
70°-80°	142.0	2.9
80°-90°	34.4	0.7
90°-100°	60.4	1.2
100°-110°	176.1	3.6
110°-120°	287.3	5.8
120°-130°	364.6	7.4
130°-140°	390.1	7.9
140°-150°	364.3	7.4
150°-160°	299.8	6.1
160°-170°	201.0	4.1
170°-180°	71.4	1.4
0°-30°	806.9	16.4
0°-40°	1310.2	26.6
0°-60°	2235.5	45.4
0°-90°	2711.4	55.0
90°-120°	523.8	10.6
90°-150°	1642.8	33.3
90°-180°	2215.0	45.0
0°-180°	4926.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1225	1225	1225	1225	1225	
5°	1227	1115	1227	1115	1227	115
15°	1168	964	1168	964	1168	326
25°	1037	890	1037	890	1037	477
35°	910	951	910	951	910	570
45°	787	561	787	561	787	605
55°	621	409	621	409	621	555
65°	445	246	445	246	445	437
75°	230	82	230	82	230	243
85°	40	18	40	18	40	53
90°	2	17	2	33	2	3
95°	24	18	24	103	24	29
105°	112	179	112	247	112	119
115°	215	297	215	366	215	211
125°	317	471	317	449	317	284
135°	431	617	431	497	431	333
145°	551	711	551	508	551	345
155°	654	772	654	527	654	301
165°	723	805	723	607	723	204
175°	756	788	756	712	756	72
180°	759	759	759	759	759	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1222.0	1227.9	1233.7	1225.5	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0
5°	1227.2	1226.7	1226.1	1201.9	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3
7.5°	1204.8	1188.7	1172.7	1140.2	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2
10°	1185.2	1160.9	1136.5	1099.8	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3
12.5°	1180.6	1142.1	1103.7	1063.4	1022.5	996.1	984.2	975.8	978.3	980.8	978.3
15°	1167.7	1109.7	1051.7	1010.8	975.6	956.4	953.3	952.4	958.1	963.8	958.1
17.5°	1125.3	1062.9	1000.4	964.4	937.3	927.0	933.6	940.3	946.9	953.5	946.9
20°	1095.5	1033.8	972.2	938.9	915.1	909.4	921.8	932.7	938.9	945.1	938.9
22.5°	1070.3	1007.8	945.4	915.9	897.5	895.1	908.8	919.9	923.2	926.5	923.2
25°	1037.2	966.8	896.3	874.8	869.7	873.0	884.9	893.5	891.9	890.4	891.9
27.5°	997.6	924.0	850.5	836.7	842.8	849.5	856.7	862.4	863.3	864.3	863.3
30°	969.6	896.1	822.5	811.5	821.4	829.9	837.2	844.3	851.0	857.7	851.0
32.5°	942.6	866.5	790.5	782.6	797.4	813.4	830.6	847.4	862.8	878.3	862.8
35°	910.2	830.9	751.7	745.5	763.6	786.9	815.4	849.5	900.2	951.0	900.2
37.5°	876.2	791.2	706.3	703.4	728.0	752.5	777.1	799.5	815.7	831.9	815.7
40°	851.9	762.8	673.7	673.6	703.1	733.7	765.3	779.7	742.4	705.1	742.4
42.5°	825.8	736.7	647.6	645.0	671.2	704.9	746.0	761.1	698.1	635.1	698.1
45°	786.7	693.9	601.2	597.9	624.3	642.9	653.8	650.7	605.6	560.6	605.6
47.5°	740.5	652.1	563.8	563.0	591.5	593.6	569.3	546.6	529.0	511.4	529.0
50°	705.1	621.7	538.3	541.9	574.5	571.4	532.6	500.6	489.2	477.8	489.2
52.5°	670.6	591.3	512.1	521.7	561.0	554.8	503.1	462.4	454.7	447.1	454.7
55°	621.2	545.0	468.9	490.6	545.0	536.7	465.8	412.2	410.6	409.1	410.6
57.5°	568.7	496.7	424.7	439.8	484.0	475.3	413.7	368.2	370.9	373.6	370.9
60°	536.1	466.2	396.2	398.2	424.1	415.8	373.3	340.7	337.6	334.5	337.6
62.5°	501.6	435.0	368.4	358.7	368.0	358.3	329.5	307.1	304.0	300.9	304.0
65°	445.2	384.6	324.0	305.7	301.6	287.6	263.8	245.9	245.9	245.9	245.9
67.5°	383.2	330.4	277.5	257.1	247.5	233.6	215.4	198.7	186.3	173.9	186.3
70°	340.3	293.7	247.1	225.7	212.8	196.2	176.0	158.8	150.5	142.2	150.5
72.5°	294.6	254.6	214.6	192.8	176.9	160.7	144.3	129.5	120.0	110.5	120.0
75°	229.6	197.5	165.4	144.1	126.5	110.2	95.2	83.7	82.6	81.6	82.6
77.5°	166.0	142.5	119.1	101.9	86.8	75.5	67.9	62.3	62.4	62.5	62.4
80°	125.9	108.3	90.6	74.6	59.0	51.0	50.5	50.2	50.8	51.3	50.8
82.5°	88.6	75.5	62.5	52.2	42.9	38.6	39.3	39.9	40.0	40.1	40.0
85°	39.6	33.4	27.2	24.9	23.8	22.3	20.2	18.5	18.0	17.5	18.0
87.5°	8.9	9.0	9.4	9.0	8.2	7.7	7.7	7.9	8.0	8.0	8.0
90°	2.3	5.4	9.2	12.3	14.6	15.3	15.3	16.1	16.9	16.9	16.9
92.5°	8.4	13.3	13.5	13.5	16.4	17.8	19.0	19.2	19.9	19.9	19.9
95°	23.8	26.1	39.1	38.3	26.1	20.7	17.6	17.6	17.6	17.6	17.6
97.5°	45.4	48.7	50.9	68.2	72.0	69.6	56.7	47.7	42.6	40.3	42.6
100°	64.4	65.9	70.5	71.3	90.4	108.8	99.6	88.1	84.3	82.0	84.3
102.5°	83.4	84.3	91.3	94.6	99.0	109.4	141.3	137.8	135.2	134.7	135.2
105°	111.9	112.6	125.7	131.8	134.9	134.9	134.1	149.4	173.9	179.3	173.9
107.5°	142.4	145.9	161.2	177.6	181.1	182.1	178.1	175.8	174.9	175.5	174.9
110°	163.2	168.6	187.0	207.7	213.0	214.6	213.0	210.7	209.2	209.2	209.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	183.4	191.3	212.1	235.9	244.9	249.5	246.1	244.4	242.9	244.1	242.9
115°	214.6	226.1	253.6	278.2	296.6	298.8	298.1	298.1	297.3	297.3	297.3
117.5°	243.4	261.8	292.7	321.2	342.5	348.7	351.7	350.8	349.9	351.4	349.9
120°	263.6	285.1	320.3	352.5	373.2	382.4	385.4	383.9	385.4	383.9	385.4
122.5°	285.1	311.4	346.1	379.5	403.8	414.3	417.9	418.2	418.5	417.6	418.5
125°	317.2	349.4	390.0	424.5	449.8	462.1	465.1	465.9	467.4	471.3	467.4
127.5°	349.7	386.2	430.8	464.1	490.0	504.8	509.6	511.3	514.5	516.2	514.5
130°	372.4	413.8	459.0	490.4	515.7	531.8	540.2	542.5	546.4	545.6	546.4
132.5°	396.3	439.5	485.4	518.0	541.5	558.8	566.0	572.6	573.9	575.0	573.9
135°	431.4	478.2	524.1	556.3	578.5	595.4	604.6	610.7	614.6	616.9	614.6
137.5°	468.4	517.7	561.8	590.5	612.9	627.4	637.9	644.3	648.3	650.1	648.3
140°	493.5	541.0	583.9	613.8	633.7	648.3	657.5	665.1	669.7	669.7	669.7
142.5°	517.4	564.3	606.0	635.9	653.3	666.7	676.5	682.3	687.5	687.5	687.5
145°	551.0	597.7	636.0	665.9	680.5	692.7	703.4	708.0	711.1	711.1	711.1
147.5°	586.1	627.4	662.4	691.0	703.3	717.7	726.1	729.8	733.6	732.0	733.6
150°	606.9	645.2	678.9	705.7	718.0	731.8	740.2	743.3	747.1	744.8	747.1
152.5°	627.1	663.6	694.2	719.2	729.7	743.4	753.1	756.2	758.8	757.1	758.8
155°	654.4	686.6	714.9	737.9	747.1	760.1	769.3	773.2	776.2	772.4	776.2
157.5°	678.8	706.5	731.2	752.3	762.1	773.3	781.9	786.7	789.7	788.0	789.7
160°	693.5	718.8	741.0	760.9	770.1	780.1	789.3	794.6	797.7	795.4	797.7
162.5°	705.7	728.6	749.6	767.7	775.6	784.4	795.4	800.1	803.2	800.3	803.2
165°	723.4	741.8	760.1	775.5	782.4	789.3	800.8	806.1	808.4	805.4	808.4
167.5°	736.7	750.8	765.7	778.8	783.9	790.6	802.1	806.6	809.5	805.7	809.5
170°	744.1	756.3	769.3	780.1	783.9	790.0	801.5	805.4	807.7	803.8	807.7
172.5°	750.2	759.4	770.0	779.5	781.5	786.4	797.2	801.1	802.8	799.5	802.8
175°	756.3	761.7	769.3	775.5	774.7	777.8	787.0	790.0	793.1	788.5	793.1
177.5°	759.2	761.7	764.1	767.8	765.4	765.4	772.1	773.9	774.6	772.1	774.6
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1194.8	1198.7	1203.7	1212.6	1225.5	1233.7	1227.9	1222.0	1227.9	1233.7	1225.5
5°	1117.4	1129.7	1145.7	1169.8	1201.9	1226.1	1226.7	1227.2	1226.7	1226.1	1201.9
7.5°	1043.1	1056.6	1074.3	1102.1	1140.2	1172.7	1188.7	1204.8	1188.7	1172.7	1140.2
10°	1002.3	1014.3	1030.4	1058.8	1099.8	1136.5	1160.9	1185.2	1160.9	1136.5	1099.8
12.5°	975.8	984.2	996.1	1022.5	1063.4	1103.7	1142.1	1180.6	1142.1	1103.7	1063.4
15°	952.4	953.3	956.4	975.6	1010.8	1051.7	1109.7	1167.7	1109.7	1051.7	1010.8
17.5°	940.3	933.6	927.0	937.3	964.4	1000.4	1062.9	1125.3	1062.9	1000.4	964.4
20°	932.7	921.8	909.4	915.1	938.9	972.2	1033.8	1095.5	1033.8	972.2	938.9
22.5°	919.9	908.8	895.1	897.5	915.9	945.4	1007.8	1070.3	1007.8	945.4	915.9
25°	893.5	884.9	873.0	869.7	874.8	896.3	966.8	1037.2	966.8	896.3	874.8
27.5°	862.4	856.7	849.5	842.8	836.7	850.5	924.0	997.6	924.0	850.5	836.7
30°	844.3	837.2	829.9	821.4	811.5	822.5	896.1	969.6	896.1	822.5	811.5
32.5°	847.4	830.6	813.4	797.4	782.6	790.5	866.5	942.6	866.5	790.5	782.6
35°	849.5	815.4	786.9	763.6	745.5	751.7	830.9	910.2	830.9	751.7	745.5
37.5°	799.5	777.1	752.5	728.0	703.4	706.3	791.2	876.2	791.2	706.3	703.4
40°	779.7	765.3	733.7	703.1	673.6	673.7	762.8	851.9	762.8	673.7	673.6
42.5°	761.1	746.0	704.9	671.2	645.0	647.6	736.7	825.8	736.7	647.6	645.0
45°	650.7	653.8	642.9	624.3	597.9	601.2	693.9	786.7	693.9	601.2	597.9
47.5°	546.6	569.3	593.6	591.5	563.0	563.8	652.1	740.5	652.1	563.8	563.0
50°	500.6	532.6	571.4	574.5	541.9	538.3	621.7	705.1	621.7	538.3	541.9
52.5°	462.4	503.1	554.8	561.0	521.7	512.1	591.3	670.6	591.3	512.1	521.7
55°	412.2	465.8	536.7	545.0	490.6	468.9	545.0	621.2	545.0	468.9	490.6
57.5°	368.2	413.7	475.3	484.0	439.8	424.7	496.7	568.7	496.7	424.7	439.8
60°	340.7	373.3	415.8	424.1	398.2	396.2	466.2	536.1	466.2	396.2	398.2
62.5°	307.1	329.5	358.3	368.0	358.7	368.4	435.0	501.6	435.0	368.4	358.7
65°	245.9	263.8	287.6	301.6	305.7	324.0	384.6	445.2	384.6	324.0	305.7
67.5°	198.7	215.4	233.6	247.5	257.1	277.5	330.4	383.2	330.4	277.5	257.1
70°	158.8	176.0	196.2	212.8	225.7	247.1	293.7	340.3	293.7	247.1	225.7
72.5°	129.5	144.3	160.7	176.9	192.8	214.6	254.6	294.6	254.6	214.6	192.8
75°	83.7	95.2	110.2	126.5	144.1	165.4	197.5	229.6	197.5	165.4	144.1
77.5°	62.3	67.9	75.5	86.8	101.9	119.1	142.5	166.0	142.5	119.1	101.9
80°	50.2	50.5	51.0	59.0	74.6	90.6	108.3	125.9	108.3	90.6	74.6
82.5°	39.9	39.3	38.6	42.9	52.2	62.5	75.5	88.6	75.5	62.5	52.2
85°	18.5	20.2	22.3	23.8	24.9	27.2	33.4	39.6	33.4	27.2	24.9
87.5°	7.9	7.7	7.7	8.2	9.0	9.4	9.0	8.9	9.0	9.2	9.3
90°	16.1	15.3	15.3	14.6	12.3	9.2	5.4	2.3	5.4	8.4	13.8
92.5°	19.2	19.0	17.8	16.4	13.5	13.5	13.3	8.4	14.6	20.7	29.7
95°	17.6	17.6	20.7	26.1	38.3	39.1	26.1	23.8	33.7	47.5	59.8
97.5°	47.7	56.7	69.6	72.0	68.2	50.9	48.7	45.4	61.8	75.4	95.2
100°	88.1	99.6	108.8	90.4	71.3	70.5	65.9	64.4	82.0	95.0	114.2
102.5°	137.8	141.3	109.4	99.0	94.6	91.3	84.3	83.4	101.0	118.9	135.0
105°	149.4	134.1	134.9	134.9	131.8	125.7	112.6	111.9	131.8	152.5	172.4
107.5°	175.8	178.1	182.1	181.1	177.6	161.2	145.9	142.4	160.3	185.1	207.0
110°	210.7	213.0	214.6	213.0	207.7	187.0	168.6	163.2	179.3	205.4	229.1



TEST NUMBER: P1427869

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	244.4	246.1	249.5	244.9	235.9	212.1	191.3	183.4	199.5	226.2	250.6
115°	298.1	298.1	298.8	296.6	278.2	253.6	226.1	214.6	228.4	252.9	279.7
117.5°	350.8	351.7	348.7	342.5	321.2	292.7	261.8	243.4	254.3	280.2	307.7
120°	383.9	385.4	382.4	373.2	352.5	320.3	285.1	263.6	272.0	297.3	324.9
122.5°	418.2	417.9	414.3	403.8	379.5	346.1	311.4	285.1	288.6	312.0	339.0
125°	465.9	465.1	462.1	449.8	424.5	390.0	349.4	317.2	312.6	332.6	360.2
127.5°	511.3	509.6	504.8	490.0	464.1	430.8	386.2	349.7	339.5	352.0	377.3
130°	542.5	540.2	531.8	515.7	490.4	459.0	413.8	372.4	357.9	365.5	387.7
132.5°	572.6	566.0	558.8	541.5	518.0	485.4	439.5	396.3	376.2	379.6	396.9
135°	610.7	604.6	595.4	578.5	556.3	524.1	478.2	431.4	403.8	400.8	410.7
137.5°	644.3	637.9	627.4	612.9	590.5	561.8	517.7	468.4	433.6	423.3	427.1
140°	665.1	657.5	648.3	633.7	613.8	583.9	541.0	493.5	454.4	439.8	437.5
142.5°	682.3	676.5	666.7	653.3	635.9	606.0	564.3	517.4	475.9	457.0	451.6
145°	708.0	703.4	692.7	680.5	665.9	636.0	597.7	551.0	509.6	485.1	473.6
147.5°	729.8	726.1	717.7	703.3	691.0	662.4	627.4	586.1	543.6	513.3	498.4
150°	743.3	740.2	731.8	718.0	705.7	678.9	645.2	606.9	566.3	534.1	514.9
152.5°	756.2	753.1	743.4	729.7	719.2	694.2	663.6	627.1	585.9	553.7	533.9
155°	773.2	769.3	760.1	747.1	737.9	714.9	686.6	654.4	619.2	585.4	563.2
157.5°	786.7	781.9	773.3	762.1	752.3	731.2	706.5	678.8	648.0	615.8	593.1
160°	794.6	789.3	780.1	770.1	760.9	741.0	718.8	693.5	665.1	636.0	611.5
162.5°	800.1	795.4	784.4	775.6	767.7	749.6	728.6	705.7	680.5	655.0	632.3
165°	806.1	800.8	789.3	782.4	775.5	760.1	741.8	723.4	701.9	681.2	662.8
167.5°	806.6	802.1	790.6	783.9	778.8	765.7	750.8	736.7	720.0	703.8	688.4
170°	805.4	801.5	790.0	783.9	780.1	769.3	756.3	744.1	731.0	717.2	705.0
172.5°	801.1	797.2	786.4	781.5	779.5	770.0	759.4	750.2	739.0	728.9	719.1
175°	790.0	787.0	777.8	774.7	775.5	769.3	761.7	756.3	749.4	743.3	737.9
177.5°	773.9	772.1	765.4	765.4	767.8	764.1	761.7	759.2	756.2	754.3	752.5
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427869

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1212.6	1203.7	1198.7	1194.8	1194.0	1193.1	1194.0	1194.8	1198.7	1203.7	1212.6
5°	1169.8	1145.7	1129.7	1117.4	1116.3	1115.3	1116.3	1117.4	1129.7	1145.7	1169.8
7.5°	1102.1	1074.3	1056.6	1043.1	1042.2	1041.4	1042.2	1043.1	1056.6	1074.3	1102.1
10°	1058.8	1030.4	1014.3	1002.3	1002.3	1002.3	1002.3	1002.3	1014.3	1030.4	1058.8
12.5°	1022.5	996.1	984.2	975.8	978.3	980.8	978.3	975.8	984.2	996.1	1022.5
15°	975.6	956.4	953.3	952.4	958.1	963.8	958.1	952.4	953.3	956.4	975.6
17.5°	937.3	927.0	933.6	940.3	946.9	953.5	946.9	940.3	933.6	927.0	937.3
20°	915.1	909.4	921.8	932.7	938.9	945.1	938.9	932.7	921.8	909.4	915.1
22.5°	897.5	895.1	908.8	919.9	923.2	926.5	923.2	919.9	908.8	895.1	897.5
25°	869.7	873.0	884.9	893.5	891.9	890.4	891.9	893.5	884.9	873.0	869.7
27.5°	842.8	849.5	856.7	862.4	863.3	864.3	863.3	862.4	856.7	849.5	842.8
30°	821.4	829.9	837.2	844.3	851.0	857.7	851.0	844.3	837.2	829.9	821.4
32.5°	797.4	813.4	830.6	847.4	862.8	878.3	862.8	847.4	830.6	813.4	797.4
35°	763.6	786.9	815.4	849.5	900.2	951.0	900.2	849.5	815.4	786.9	763.6
37.5°	728.0	752.5	777.1	799.5	815.7	831.9	815.7	799.5	777.1	752.5	728.0
40°	703.1	733.7	765.3	779.7	742.4	705.1	742.4	779.7	765.3	733.7	703.1
42.5°	671.2	704.9	746.0	761.1	698.1	635.1	698.1	761.1	746.0	704.9	671.2
45°	624.3	642.9	653.8	650.7	605.6	560.6	605.6	650.7	653.8	642.9	624.3
47.5°	591.5	593.6	569.3	546.6	529.0	511.4	529.0	546.6	569.3	593.6	591.5
50°	574.5	571.4	532.6	500.6	489.2	477.8	489.2	500.6	532.6	571.4	574.5
52.5°	561.0	554.8	503.1	462.4	454.7	447.1	454.7	462.4	503.1	554.8	561.0
55°	545.0	536.7	465.8	412.2	410.6	409.1	410.6	412.2	465.8	536.7	545.0
57.5°	484.0	475.3	413.7	368.2	370.9	373.6	370.9	368.2	413.7	475.3	484.0
60°	424.1	415.8	373.3	340.7	337.6	334.5	337.6	340.7	373.3	415.8	424.1
62.5°	368.0	358.3	329.5	307.1	304.0	300.9	304.0	307.1	329.5	358.3	368.0
65°	301.6	287.6	263.8	245.9	245.9	245.9	245.9	245.9	263.8	287.6	301.6
67.5°	247.5	233.6	215.4	198.7	186.3	173.9	186.3	198.7	215.4	233.6	247.5
70°	212.8	196.2	176.0	158.8	150.5	142.2	150.5	158.8	176.0	196.2	212.8
72.5°	176.9	160.7	144.3	129.5	120.0	110.5	120.0	129.5	144.3	160.7	176.9
75°	126.5	110.2	95.2	83.7	82.6	81.6	82.6	83.7	95.2	110.2	126.5
77.5°	86.8	75.5	67.9	62.3	62.4	62.5	62.4	62.3	67.9	75.5	86.8
80°	59.0	51.0	50.5	50.2	50.8	51.3	50.8	50.2	50.5	51.0	59.0
82.5°	42.9	38.6	39.3	39.9	40.0	40.1	40.0	39.9	39.3	38.6	42.9
85°	23.8	22.3	20.2	18.5	18.0	17.5	18.0	18.5	20.2	22.3	23.8
87.5°	8.8	9.3	10.3	10.9	11.6	11.3	11.6	10.9	10.3	9.3	8.8
90°	17.6	23.0	28.4	31.4	34.5	33.0	34.5	31.4	28.4	23.0	17.6
92.5°	35.4	44.4	51.0	56.6	59.0	58.7	59.0	56.6	51.0	44.4	35.4
95°	71.3	82.0	92.7	100.4	105.0	103.4	105.0	100.4	92.7	82.0	71.3
97.5°	109.9	124.3	136.2	143.4	148.0	151.1	148.0	143.4	136.2	124.3	109.9
100°	135.6	149.4	163.2	171.6	179.3	182.4	179.3	171.6	163.2	149.4	135.6
102.5°	156.5	174.6	189.6	198.6	205.1	208.1	205.1	198.6	189.6	174.6	156.5
105°	190.8	210.0	226.1	237.5	244.4	246.7	244.4	237.5	226.1	210.0	190.8
107.5°	225.1	244.9	259.8	272.5	280.9	285.8	280.9	272.5	259.8	244.9	225.1
110°	252.1	268.2	284.3	295.8	304.2	307.3	304.2	295.8	284.3	268.2	252.1



TEST NUMBER: P1427869

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	274.8	292.7	308.8	320.3	330.0	334.3	330.0	320.3	308.8	292.7	274.8
115°	306.5	330.3	344.8	355.6	362.5	366.3	362.5	355.6	344.8	330.3	306.5
117.5°	332.9	357.7	373.6	381.9	385.1	387.9	385.1	381.9	373.6	357.7	332.9
120°	349.4	372.4	390.8	401.5	405.4	406.9	405.4	401.5	390.8	372.4	349.4
122.5°	364.7	386.5	404.3	417.5	423.8	425.3	423.8	417.5	404.3	386.5	364.7
125°	386.2	406.9	425.3	438.3	445.2	449.0	445.2	438.3	425.3	406.9	386.2
127.5°	404.9	427.3	444.1	455.9	462.7	465.7	462.7	455.9	444.1	427.3	404.9
130°	415.3	438.3	455.2	468.2	474.3	477.4	474.3	468.2	455.2	438.3	415.3
132.5°	423.3	447.5	465.0	476.8	483.5	486.6	483.5	476.8	465.0	447.5	423.3
135°	432.9	458.2	476.6	488.1	494.3	497.3	494.3	488.1	476.6	458.2	432.9
137.5°	441.4	464.4	483.5	495.6	501.1	503.1	501.1	495.6	483.5	464.4	441.4
140°	447.5	467.4	486.6	498.1	504.2	505.0	504.2	498.1	486.6	467.4	447.5
142.5°	455.5	471.1	487.8	499.3	505.4	506.8	505.4	499.3	487.8	471.1	455.5
145°	469.7	478.9	490.4	501.1	506.5	508.0	506.5	501.1	490.4	478.9	469.7
147.5°	487.7	490.6	496.5	503.6	508.8	509.9	508.8	503.6	496.5	490.6	487.7
150°	501.1	500.4	502.7	507.3	511.9	511.1	511.9	507.3	502.7	500.4	501.1
152.5°	516.5	512.0	511.9	514.0	516.2	516.0	516.2	514.0	511.9	512.0	516.5
155°	542.5	534.1	529.5	528.0	528.0	527.2	528.0	528.0	529.5	534.1	542.5
157.5°	571.2	559.4	552.5	548.8	547.7	546.1	547.7	548.8	552.5	559.4	571.2
160°	590.8	577.8	570.9	564.7	562.4	560.2	562.4	564.7	570.9	577.8	590.8
162.5°	609.2	596.8	589.3	583.8	581.5	577.9	581.5	583.8	589.3	596.8	609.2
165°	639.1	626.1	617.6	613.0	610.0	606.9	610.0	613.0	617.6	626.1	639.1
167.5°	669.0	654.7	649.2	644.0	641.1	635.6	641.1	644.0	649.2	654.7	669.0
170°	687.4	674.3	671.3	666.7	661.3	655.2	661.3	666.7	671.3	674.3	687.4
172.5°	703.3	694.6	691.5	686.9	685.2	680.3	685.2	686.9	691.5	694.6	703.3
175°	726.4	719.5	719.5	718.8	716.5	711.9	716.5	718.8	719.5	719.5	726.4
177.5°	745.7	742.1	744.5	744.5	743.9	739.6	743.9	744.5	744.5	742.1	745.7
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427869

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1224.8	1224.8	1224.8	1224.8
2.5°	1225.5	1233.7	1227.9	1222.0
5°	1201.9	1226.1	1226.7	1227.2
7.5°	1140.2	1172.7	1188.7	1204.8
10°	1099.8	1136.5	1160.9	1185.2
12.5°	1063.4	1103.7	1142.1	1180.6
15°	1010.8	1051.7	1109.7	1167.7
17.5°	964.4	1000.4	1062.9	1125.3
20°	938.9	972.2	1033.8	1095.5
22.5°	915.9	945.4	1007.8	1070.3
25°	874.8	896.3	966.8	1037.2
27.5°	836.7	850.5	924.0	997.6
30°	811.5	822.5	896.1	969.6
32.5°	782.6	790.5	866.5	942.6
35°	745.5	751.7	830.9	910.2
37.5°	703.4	706.3	791.2	876.2
40°	673.6	673.7	762.8	851.9
42.5°	645.0	647.6	736.7	825.8
45°	597.9	601.2	693.9	786.7
47.5°	563.0	563.8	652.1	740.5
50°	541.9	538.3	621.7	705.1
52.5°	521.7	512.1	591.3	670.6
55°	490.6	468.9	545.0	621.2
57.5°	439.8	424.7	496.7	568.7
60°	398.2	396.2	466.2	536.1
62.5°	358.7	368.4	435.0	501.6
65°	305.7	324.0	384.6	445.2
67.5°	257.1	277.5	330.4	383.2
70°	225.7	247.1	293.7	340.3
72.5°	192.8	214.6	254.6	294.6
75°	144.1	165.4	197.5	229.6
77.5°	101.9	119.1	142.5	166.0
80°	74.6	90.6	108.3	125.9
82.5°	52.2	62.5	75.5	88.6
85°	24.9	27.2	33.4	39.6
87.5°	9.3	9.2	9.0	8.9
90°	13.8	8.4	5.4	2.3
92.5°	29.7	20.7	14.6	8.4
95°	59.8	47.5	33.7	23.8
97.5°	95.2	75.4	61.8	45.4
100°	114.2	95.0	82.0	64.4
102.5°	135.0	118.9	101.0	83.4
105°	172.4	152.5	131.8	111.9
107.5°	207.0	185.1	160.3	142.4
110°	229.1	205.4	179.3	163.2



TEST NUMBER: P1427869

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L840-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	250.6	226.2	199.5	183.4
115°	279.7	252.9	228.4	214.6
117.5°	307.7	280.2	254.3	243.4
120°	324.9	297.3	272.0	263.6
122.5°	339.0	312.0	288.6	285.1
125°	360.2	332.6	312.6	317.2
127.5°	377.3	352.0	339.5	349.7
130°	387.7	365.5	357.9	372.4
132.5°	396.9	379.6	376.2	396.3
135°	410.7	400.8	403.8	431.4
137.5°	427.1	423.3	433.6	468.4
140°	437.5	439.8	454.4	493.5
142.5°	451.6	457.0	475.9	517.4
145°	473.6	485.1	509.6	551.0
147.5°	498.4	513.3	543.6	586.1
150°	514.9	534.1	566.3	606.9
152.5°	533.9	553.7	585.9	627.1
155°	563.2	585.4	619.2	654.4
157.5°	593.1	615.8	648.0	678.8
160°	611.5	636.0	665.1	693.5
162.5°	632.3	655.0	680.5	705.7
165°	662.8	681.2	701.9	723.4
167.5°	688.4	703.8	720.0	736.7
170°	705.0	717.2	731.0	744.1
172.5°	719.1	728.9	739.0	750.2
175°	737.9	743.3	749.4	756.3
177.5°	752.5	754.3	756.2	759.2
180°	758.6	758.6	758.6	758.6



TEST NUMBER: P1427869
 CATALOG NUMBER: SQ2W-PH1-K-050U-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	17.70	18.60	18.61	19.53	20.73	16.53	17.43	17.44	18.36	19.56
	3H	19.88	20.68	20.80	21.62	22.85	17.58	18.39	18.51	19.33	20.55
	4H	20.69	21.45	21.63	22.40	23.63	17.83	18.59	18.77	19.53	20.77
	6H	21.16	21.86	22.11	22.81	24.06	17.97	18.67	18.92	19.62	20.87
	8H	21.31	21.98	22.27	22.95	24.19	18.03	18.70	18.99	19.67	20.91
	12H	21.37	22.01	22.34	22.97	24.24	18.04	18.68	19.01	19.64	20.91
4H	2H	18.14	18.90	19.09	19.85	21.08	17.22	17.98	18.16	18.92	20.16
	3H	20.40	21.03	21.35	22.01	23.25	18.45	19.08	19.41	20.06	21.31
	4H	21.27	21.85	22.24	22.82	24.09	18.74	19.32	19.71	20.29	21.56
	6H	21.83	22.33	22.81	23.32	24.59	18.94	19.44	19.92	20.44	21.71
	8H	22.03	22.50	23.02	23.49	24.77	19.03	19.50	20.02	20.49	21.77
	12H	22.12	22.54	23.12	23.54	24.83	19.06	19.48	20.06	20.48	21.77
8H	4H	21.30	21.76	22.28	22.75	24.03	18.98	19.44	19.96	20.43	21.71
	6H	21.93	22.31	22.93	23.34	24.62	19.24	19.63	20.25	20.66	21.94
	8H	22.19	22.53	23.20	23.54	24.85	19.39	19.73	20.41	20.75	22.05
	12H	22.32	22.62	23.34	23.63	24.98	19.46	19.76	20.48	20.77	22.11
12H	4H	21.25	21.67	22.25	22.67	23.96	18.97	19.39	19.97	20.40	21.69
	6H	21.90	22.24	22.92	23.26	24.56	19.28	19.62	20.30	20.64	21.94
	8H	22.18	22.47	23.19	23.48	24.83	19.44	19.74	20.46	20.75	22.10