

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: P1427868

Luminaire Tested: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427868  
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-L835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

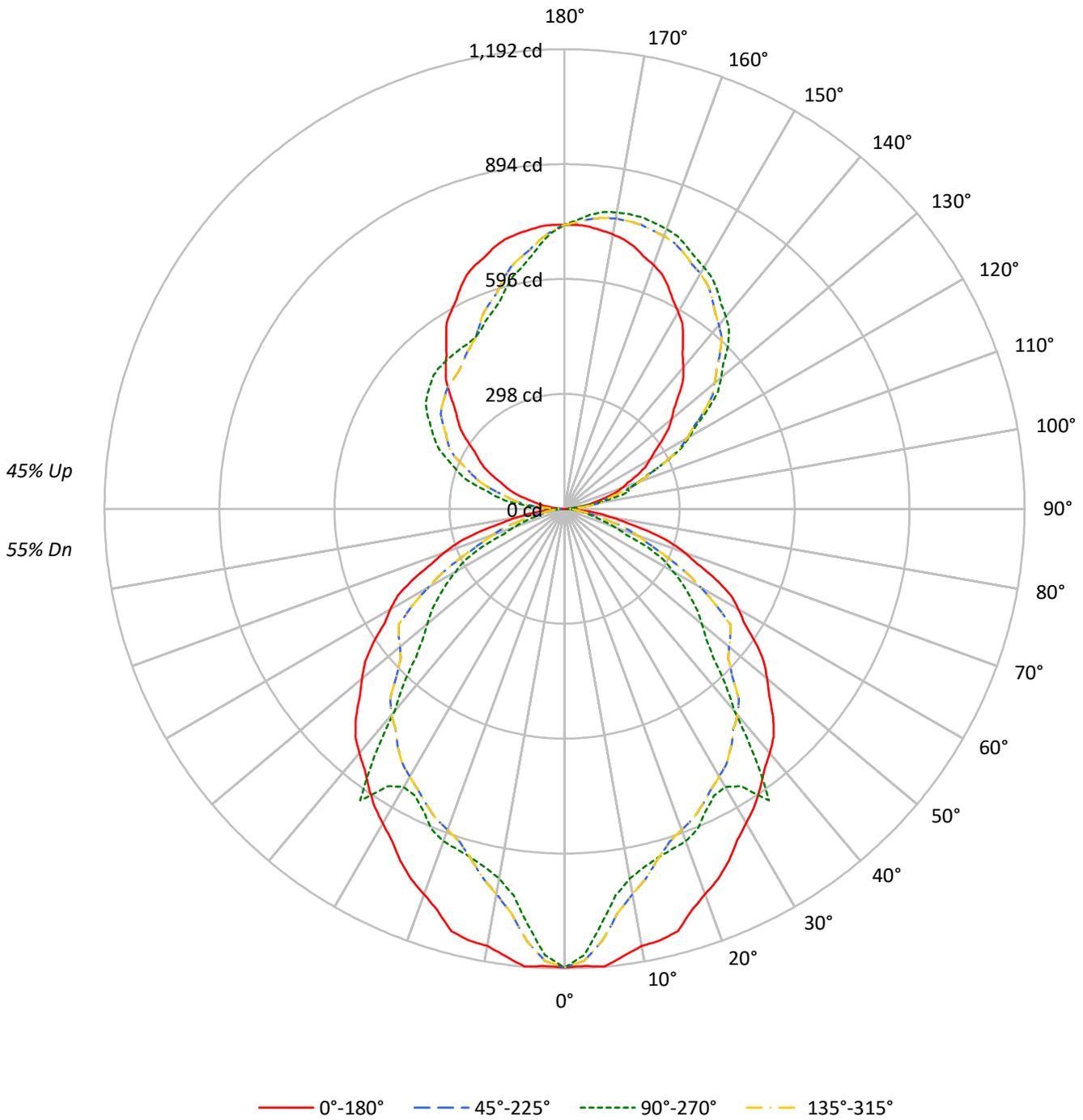
Lumens per Lamp: N/A  
Luminaire Lumens: 4783.8 lumens  
Efficiency: N/A  
Efficacy: 146.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

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

TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

### 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	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°	19204	19204	19204	19204
5°	19314	17552	19314	17552
10°	18869	15955	18869	15955
15°	18953	15644	18953	15644
20°	18278	15769	18278	15769
25°	17943	15403	17943	15403
30°	17555	15528	17555	15528
35°	17420	18200	17420	18200
40°	17437	14431	17437	14431
45°	17442	12428	17442	12428
50°	17198	11655	17198	11655
55°	16979	11181	16979	11181
60°	16811	10488	16811	10488
65°	16515	9123	16515	9123
70°	15597	6519	15597	6519
75°	13905	4941	13905	4941
80°	11362	4630	11362	4630
85°	7132	3149	7132	3149

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17442 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	2.2
10°-20°	275.3	5.8
20°-30°	403.6	8.4
30°-40°	488.7	10.2
40°-50°	480.6	10.0
50°-60°	418.0	8.7
60°-70°	290.7	6.1
70°-80°	137.9	2.9
80°-90°	33.4	0.7
90°-100°	58.6	1.2
100°-110°	171.0	3.6
110°-120°	279.0	5.8
120°-130°	354.0	7.4
130°-140°	378.8	7.9
140°-150°	353.8	7.4
150°-160°	291.1	6.1
160°-170°	195.2	4.1
170°-180°	69.3	1.4
0°-30°	783.5	16.4
0°-40°	1272.2	26.6
0°-60°	2170.8	45.4
0°-90°	2632.9	55.0
90°-120°	508.6	10.6
90°-150°	1595.3	33.3
90°-180°	2151.0	45.0
0°-180°	4783.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1189	1189	1189	1189	1189	
5°	1192	1083	1192	1083	1192	112
15°	1134	936	1134	936	1134	316
25°	1007	865	1007	865	1007	463
35°	884	923	884	923	884	554
45°	764	544	764	544	764	587
55°	603	397	603	397	603	539
65°	432	239	432	239	432	425
75°	223	79	223	79	223	236
85°	38	17	38	17	38	52
90°	2	16	2	32	2	3
95°	23	17	23	100	23	28
105°	109	174	109	240	109	116
115°	208	289	208	356	208	205
125°	308	458	308	436	308	276
135°	419	599	419	483	419	324
145°	535	690	535	493	535	335
155°	636	750	636	512	636	292
165°	702	782	702	589	702	198
175°	734	766	734	691	734	70
180°	737	737	737	737	737	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1186.7	1192.3	1197.9	1190.0	1177.5	1168.9	1164.0	1160.2	1159.4	1158.6	1159.4
5°	1191.7	1191.1	1190.6	1167.1	1135.9	1112.6	1097.0	1085.0	1084.0	1083.0	1084.0
7.5°	1169.9	1154.3	1138.7	1107.2	1070.2	1043.2	1026.0	1012.9	1012.1	1011.3	1012.1
10°	1150.9	1127.3	1103.6	1067.9	1028.2	1000.5	984.9	973.2	973.2	973.2	973.2
12.5°	1146.4	1109.1	1071.7	1032.6	992.9	967.2	955.7	947.6	950.0	952.4	950.0
15°	1133.9	1077.6	1021.3	981.5	947.3	928.7	925.7	924.8	930.4	935.9	930.4
17.5°	1092.7	1032.1	971.4	936.5	910.1	900.2	906.6	913.1	919.5	925.9	919.5
20°	1063.8	1003.9	944.1	911.8	888.6	883.1	895.2	905.7	911.8	917.8	911.8
22.5°	1039.3	978.7	918.0	889.4	871.5	869.2	882.5	893.2	896.5	899.7	896.5
25°	1007.2	938.8	870.4	849.5	844.5	847.7	859.3	867.6	866.1	864.6	866.1
27.5°	968.7	897.3	825.9	812.5	818.4	824.9	831.9	837.4	838.3	839.2	838.3
30°	941.6	870.1	798.7	788.0	797.6	805.9	812.9	819.8	826.4	832.9	826.4
32.5°	915.3	841.5	767.6	760.0	774.3	789.9	806.6	822.9	837.8	852.8	837.8
35°	883.8	806.9	729.9	723.9	741.5	764.1	791.8	824.9	874.2	923.4	874.2
37.5°	850.8	768.3	685.8	683.1	706.9	730.8	754.6	776.4	792.1	807.8	792.1
40°	827.3	740.7	654.2	654.1	682.8	712.5	743.1	757.1	720.9	684.7	720.9
42.5°	801.9	715.4	628.9	626.3	651.8	684.5	724.4	739.1	677.9	616.8	677.9
45°	763.9	673.8	583.8	580.5	606.2	624.3	634.9	631.9	588.1	544.3	588.1
47.5°	719.1	633.3	547.5	546.7	574.4	576.4	552.8	530.8	513.7	496.6	513.7
50°	684.7	603.7	522.7	526.2	557.9	554.9	517.2	486.1	475.1	464.0	475.1
52.5°	651.2	574.2	497.3	506.6	544.7	538.7	488.5	449.0	441.6	434.1	441.6
55°	603.2	529.2	455.3	476.4	529.2	521.2	452.3	400.2	398.7	397.2	398.7
57.5°	552.3	482.3	412.4	427.1	469.9	461.5	401.7	357.6	360.2	362.8	360.2
60°	520.6	452.7	384.8	386.7	411.8	403.8	362.5	330.8	327.8	324.8	327.8
62.5°	487.1	422.4	357.7	348.3	357.4	347.9	320.0	298.2	295.2	292.2	295.2
65°	432.3	373.5	314.6	296.9	292.9	279.3	256.1	238.8	238.8	238.8	238.8
67.5°	372.1	320.8	269.5	249.6	240.3	226.8	209.2	193.0	180.9	168.8	180.9
70°	330.4	285.2	239.9	219.2	206.6	190.5	170.9	154.2	146.1	138.1	146.1
72.5°	286.1	247.3	208.4	187.2	171.8	156.1	140.1	125.8	116.5	107.3	116.5
75°	222.9	191.8	160.6	140.0	122.8	107.0	92.4	81.2	80.2	79.2	80.2
77.5°	161.2	138.4	115.7	99.0	84.3	73.3	65.9	60.5	60.6	60.7	60.6
80°	122.2	105.1	88.0	72.4	57.3	49.5	49.0	48.8	49.3	49.8	49.3
82.5°	86.0	73.3	60.7	50.7	41.6	37.5	38.2	38.7	38.8	38.9	38.8
85°	38.5	32.4	26.4	24.1	23.1	21.6	19.6	18.0	17.5	17.0	17.5
87.5°	8.6	8.8	9.1	8.7	8.0	7.5	7.5	7.7	7.8	7.8	7.8
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.3	18.5	18.6	19.3	19.3	19.3
95°	23.1	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.1	47.3	49.4	66.2	69.9	67.6	55.1	46.3	41.4	39.1	41.4
100°	62.5	64.0	68.5	69.2	87.8	105.7	96.7	85.6	81.9	79.6	81.9
102.5°	81.0	81.9	88.7	91.8	96.1	106.3	137.2	133.8	131.3	130.8	131.3
105°	108.6	109.4	122.0	128.0	131.0	131.0	130.2	145.1	168.9	174.1	168.9
107.5°	138.3	141.7	156.6	172.5	175.9	176.8	172.9	170.7	169.8	170.4	169.8
110°	158.5	163.7	181.6	201.7	206.9	208.3	206.9	204.6	203.1	203.1	203.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.1	185.7	206.0	229.0	237.8	242.3	239.0	237.4	235.9	237.1	235.9
115°	208.3	219.5	246.3	270.1	288.0	290.2	289.5	289.5	288.7	288.7	288.7
117.5°	236.3	254.2	284.2	311.9	332.6	338.6	341.5	340.6	339.8	341.2	339.8
120°	256.0	276.8	311.0	342.3	362.4	371.3	374.3	372.8	374.3	372.8	374.3
122.5°	276.8	302.4	336.0	368.5	392.1	402.3	405.8	406.1	406.4	405.5	406.4
125°	308.1	339.3	378.7	412.2	436.8	448.7	451.7	452.4	453.9	457.6	453.9
127.5°	339.6	375.0	418.3	450.6	475.8	490.2	494.8	496.5	499.6	501.2	499.6
130°	361.6	401.8	445.7	476.2	500.8	516.4	524.6	526.8	530.5	529.8	530.5
132.5°	384.8	426.8	471.3	503.0	525.8	542.6	549.6	556.0	557.3	558.4	557.3
135°	418.9	464.3	509.0	540.2	561.8	578.2	587.1	593.0	596.8	599.0	596.8
137.5°	454.8	502.7	545.6	573.4	595.1	609.3	619.4	625.6	629.5	631.3	629.5
140°	479.2	525.3	567.0	596.0	615.4	629.5	638.4	645.9	650.3	650.3	650.3
142.5°	502.4	548.0	588.4	617.5	634.4	647.4	656.9	662.5	667.6	667.6	667.6
145°	535.0	580.4	617.6	646.6	660.8	672.7	683.1	687.5	690.5	690.5	690.5
147.5°	569.1	609.3	643.2	671.0	682.9	696.9	705.1	708.7	712.4	710.8	712.4
150°	589.3	626.5	659.3	685.3	697.2	710.6	718.8	721.8	725.5	723.3	725.5
152.5°	609.0	644.4	674.2	698.4	708.5	721.9	731.3	734.3	736.8	735.2	736.8
155°	635.5	666.7	694.2	716.6	725.5	738.1	747.1	750.8	753.8	750.0	753.8
157.5°	659.1	686.1	710.0	730.6	740.1	750.9	759.3	763.9	766.9	765.2	766.9
160°	673.4	698.0	719.5	738.9	747.8	757.5	766.4	771.6	774.6	772.4	774.6
162.5°	685.3	707.5	727.9	745.4	753.2	761.7	772.4	777.0	780.0	777.1	780.0
165°	702.4	720.3	738.1	753.0	759.7	766.4	777.6	782.8	785.0	782.0	785.0
167.5°	715.4	729.1	743.5	756.3	761.2	767.8	778.9	783.2	786.1	782.3	786.1
170°	722.5	734.4	747.1	757.5	761.2	767.2	778.3	782.0	784.3	780.6	784.3
172.5°	728.5	737.4	747.7	756.9	758.8	763.6	774.2	777.9	779.5	776.4	779.5
175°	734.4	739.6	747.1	753.0	752.3	755.3	764.2	767.2	770.1	765.7	770.1
177.5°	737.3	739.6	742.0	745.6	743.2	743.2	749.8	751.5	752.1	749.8	752.1
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1160.2	1164.0	1168.9	1177.5	1190.0	1197.9	1192.3	1186.7	1192.3	1197.9	1190.0
5°	1085.0	1097.0	1112.6	1135.9	1167.1	1190.6	1191.1	1191.7	1191.1	1190.6	1167.1
7.5°	1012.9	1026.0	1043.2	1070.2	1107.2	1138.7	1154.3	1169.9	1154.3	1138.7	1107.2
10°	973.2	984.9	1000.5	1028.2	1067.9	1103.6	1127.3	1150.9	1127.3	1103.6	1067.9
12.5°	947.6	955.7	967.2	992.9	1032.6	1071.7	1109.1	1146.4	1109.1	1071.7	1032.6
15°	924.8	925.7	928.7	947.3	981.5	1021.3	1077.6	1133.9	1077.6	1021.3	981.5
17.5°	913.1	906.6	900.2	910.1	936.5	971.4	1032.1	1092.7	1032.1	971.4	936.5
20°	905.7	895.2	883.1	888.6	911.8	944.1	1003.9	1063.8	1003.9	944.1	911.8
22.5°	893.2	882.5	869.2	871.5	889.4	918.0	978.7	1039.3	978.7	918.0	889.4
25°	867.6	859.3	847.7	844.5	849.5	870.4	938.8	1007.2	938.8	870.4	849.5
27.5°	837.4	831.9	824.9	818.4	812.5	825.9	897.3	968.7	897.3	825.9	812.5
30°	819.8	812.9	805.9	797.6	788.0	798.7	870.1	941.6	870.1	798.7	788.0
32.5°	822.9	806.6	789.9	774.3	760.0	767.6	841.5	915.3	841.5	767.6	760.0
35°	824.9	791.8	764.1	741.5	723.9	729.9	806.9	883.8	806.9	729.9	723.9
37.5°	776.4	754.6	730.8	706.9	683.1	685.8	768.3	850.8	768.3	685.8	683.1
40°	757.1	743.1	712.5	682.8	654.1	654.2	740.7	827.3	740.7	654.2	654.1
42.5°	739.1	724.4	684.5	651.8	626.3	628.9	715.4	801.9	715.4	628.9	626.3
45°	631.9	634.9	624.3	606.2	580.5	583.8	673.8	763.9	673.8	583.8	580.5
47.5°	530.8	552.8	576.4	574.4	546.7	547.5	633.3	719.1	633.3	547.5	546.7
50°	486.1	517.2	554.9	557.9	526.2	522.7	603.7	684.7	603.7	522.7	526.2
52.5°	449.0	488.5	538.7	544.7	506.6	497.3	574.2	651.2	574.2	497.3	506.6
55°	400.2	452.3	521.2	529.2	476.4	455.3	529.2	603.2	529.2	455.3	476.4
57.5°	357.6	401.7	461.5	469.9	427.1	412.4	482.3	552.3	482.3	412.4	427.1
60°	330.8	362.5	403.8	411.8	386.7	384.8	452.7	520.6	452.7	384.8	386.7
62.5°	298.2	320.0	347.9	357.4	348.3	357.7	422.4	487.1	422.4	357.7	348.3
65°	238.8	256.1	279.3	292.9	296.9	314.6	373.5	432.3	373.5	314.6	296.9
67.5°	193.0	209.2	226.8	240.3	249.6	269.5	320.8	372.1	320.8	269.5	249.6
70°	154.2	170.9	190.5	206.6	219.2	239.9	285.2	330.4	285.2	239.9	219.2
72.5°	125.8	140.1	156.1	171.8	187.2	208.4	247.3	286.1	247.3	208.4	187.2
75°	81.2	92.4	107.0	122.8	140.0	160.6	191.8	222.9	191.8	160.6	140.0
77.5°	60.5	65.9	73.3	84.3	99.0	115.7	138.4	161.2	138.4	115.7	99.0
80°	48.8	49.0	49.5	57.3	72.4	88.0	105.1	122.2	105.1	88.0	72.4
82.5°	38.7	38.2	37.5	41.6	50.7	60.7	73.3	86.0	73.3	60.7	50.7
85°	18.0	19.6	21.6	23.1	24.1	26.4	32.4	38.5	32.4	26.4	24.1
87.5°	7.7	7.5	7.5	8.0	8.7	9.1	8.8	8.6	8.8	9.0	9.0
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.5	17.3	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.9
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.1	32.7	46.1	58.0
97.5°	46.3	55.1	67.6	69.9	66.2	49.4	47.3	44.1	60.0	73.2	92.4
100°	85.6	96.7	105.7	87.8	69.2	68.5	64.0	62.5	79.6	92.3	110.9
102.5°	133.8	137.2	106.3	96.1	91.8	88.7	81.9	81.0	98.1	115.5	131.1
105°	145.1	130.2	131.0	131.0	128.0	122.0	109.4	108.6	128.0	148.1	167.4
107.5°	170.7	172.9	176.8	175.9	172.5	156.6	141.7	138.3	155.7	179.8	201.1
110°	204.6	206.9	208.3	206.9	201.7	181.6	163.7	158.5	174.1	199.4	222.5



TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.4	239.0	242.3	237.8	229.0	206.0	185.7	178.1	193.8	219.7	243.3
115°	289.5	289.5	290.2	288.0	270.1	246.3	219.5	208.3	221.7	245.6	271.6
117.5°	340.6	341.5	338.6	332.6	311.9	284.2	254.2	236.3	246.9	272.0	298.8
120°	372.8	374.3	371.3	362.4	342.3	311.0	276.8	256.0	264.2	288.7	315.5
122.5°	406.1	405.8	402.3	392.1	368.5	336.0	302.4	276.8	280.2	303.0	329.2
125°	452.4	451.7	448.7	436.8	412.2	378.7	339.3	308.1	303.6	322.9	349.7
127.5°	496.5	494.8	490.2	475.8	450.6	418.3	375.0	339.6	329.6	341.8	366.4
130°	526.8	524.6	516.4	500.8	476.2	445.7	401.8	361.6	347.5	354.9	376.5
132.5°	556.0	549.6	542.6	525.8	503.0	471.3	426.8	384.8	365.4	368.6	385.4
135°	593.0	587.1	578.2	561.8	540.2	509.0	464.3	418.9	392.1	389.2	398.8
137.5°	625.6	619.4	609.3	595.1	573.4	545.6	502.7	454.8	421.0	411.0	414.8
140°	645.9	638.4	629.5	615.4	596.0	567.0	525.3	479.2	441.2	427.1	424.9
142.5°	662.5	656.9	647.4	634.4	617.5	588.4	548.0	502.4	462.1	443.8	438.6
145°	687.5	683.1	672.7	660.8	646.6	617.6	580.4	535.0	494.8	471.0	459.9
147.5°	708.7	705.1	696.9	682.9	671.0	643.2	609.3	569.1	527.9	498.4	484.0
150°	721.8	718.8	710.6	697.2	685.3	659.3	626.5	589.3	549.9	518.6	500.0
152.5°	734.3	731.3	721.9	708.5	698.4	674.2	644.4	609.0	568.9	537.7	518.5
155°	750.8	747.1	738.1	725.5	716.6	694.2	666.7	635.5	601.2	568.5	546.9
157.5°	763.9	759.3	750.9	740.1	730.6	710.0	686.1	659.1	629.2	598.0	575.9
160°	771.6	766.4	757.5	747.8	738.9	719.5	698.0	673.4	645.9	617.6	593.8
162.5°	777.0	772.4	761.7	753.2	745.4	727.9	707.5	685.3	660.8	636.1	614.0
165°	782.8	777.6	766.4	759.7	753.0	738.1	720.3	702.4	681.6	661.5	643.6
167.5°	783.2	778.9	767.8	761.2	756.3	743.5	729.1	715.4	699.2	683.4	668.5
170°	782.0	778.3	767.2	761.2	757.5	747.1	734.4	722.5	709.9	696.5	684.6
172.5°	777.9	774.2	763.6	758.8	756.9	747.7	737.4	728.5	717.6	707.8	698.3
175°	767.2	764.2	755.3	752.3	753.0	747.1	739.6	734.4	727.7	721.8	716.6
177.5°	751.5	749.8	743.2	743.2	745.6	742.0	739.6	737.3	734.3	732.5	730.7
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1177.5	1168.9	1164.0	1160.2	1159.4	1158.6	1159.4	1160.2	1164.0	1168.9	1177.5
5°	1135.9	1112.6	1097.0	1085.0	1084.0	1083.0	1084.0	1085.0	1097.0	1112.6	1135.9
7.5°	1070.2	1043.2	1026.0	1012.9	1012.1	1011.3	1012.1	1012.9	1026.0	1043.2	1070.2
10°	1028.2	1000.5	984.9	973.2	973.2	973.2	973.2	973.2	984.9	1000.5	1028.2
12.5°	992.9	967.2	955.7	947.6	950.0	952.4	950.0	947.6	955.7	967.2	992.9
15°	947.3	928.7	925.7	924.8	930.4	935.9	930.4	924.8	925.7	928.7	947.3
17.5°	910.1	900.2	906.6	913.1	919.5	925.9	919.5	913.1	906.6	900.2	910.1
20°	888.6	883.1	895.2	905.7	911.8	917.8	911.8	905.7	895.2	883.1	888.6
22.5°	871.5	869.2	882.5	893.2	896.5	899.7	896.5	893.2	882.5	869.2	871.5
25°	844.5	847.7	859.3	867.6	866.1	864.6	866.1	867.6	859.3	847.7	844.5
27.5°	818.4	824.9	831.9	837.4	838.3	839.2	838.3	837.4	831.9	824.9	818.4
30°	797.6	805.9	812.9	819.8	826.4	832.9	826.4	819.8	812.9	805.9	797.6
32.5°	774.3	789.9	806.6	822.9	837.8	852.8	837.8	822.9	806.6	789.9	774.3
35°	741.5	764.1	791.8	824.9	874.2	923.4	874.2	824.9	791.8	764.1	741.5
37.5°	706.9	730.8	754.6	776.4	792.1	807.8	792.1	776.4	754.6	730.8	706.9
40°	682.8	712.5	743.1	757.1	720.9	684.7	720.9	757.1	743.1	712.5	682.8
42.5°	651.8	684.5	724.4	739.1	677.9	616.8	677.9	739.1	724.4	684.5	651.8
45°	606.2	624.3	634.9	631.9	588.1	544.3	588.1	631.9	634.9	624.3	606.2
47.5°	574.4	576.4	552.8	530.8	513.7	496.6	513.7	530.8	552.8	576.4	574.4
50°	557.9	554.9	517.2	486.1	475.1	464.0	475.1	486.1	517.2	554.9	557.9
52.5°	544.7	538.7	488.5	449.0	441.6	434.1	441.6	449.0	488.5	538.7	544.7
55°	529.2	521.2	452.3	400.2	398.7	397.2	398.7	400.2	452.3	521.2	529.2
57.5°	469.9	461.5	401.7	357.6	360.2	362.8	360.2	357.6	401.7	461.5	469.9
60°	411.8	403.8	362.5	330.8	327.8	324.8	327.8	330.8	362.5	403.8	411.8
62.5°	357.4	347.9	320.0	298.2	295.2	292.2	295.2	298.2	320.0	347.9	357.4
65°	292.9	279.3	256.1	238.8	238.8	238.8	238.8	238.8	256.1	279.3	292.9
67.5°	240.3	226.8	209.2	193.0	180.9	168.8	180.9	193.0	209.2	226.8	240.3
70°	206.6	190.5	170.9	154.2	146.1	138.1	146.1	154.2	170.9	190.5	206.6
72.5°	171.8	156.1	140.1	125.8	116.5	107.3	116.5	125.8	140.1	156.1	171.8
75°	122.8	107.0	92.4	81.2	80.2	79.2	80.2	81.2	92.4	107.0	122.8
77.5°	84.3	73.3	65.9	60.5	60.6	60.7	60.6	60.5	65.9	73.3	84.3
80°	57.3	49.5	49.0	48.8	49.3	49.8	49.3	48.8	49.0	49.5	57.3
82.5°	41.6	37.5	38.2	38.7	38.8	38.9	38.8	38.7	38.2	37.5	41.6
85°	23.1	21.6	19.6	18.0	17.5	17.0	17.5	18.0	19.6	21.6	23.1
87.5°	8.6	9.0	10.0	10.6	11.2	10.9	11.2	10.6	10.0	9.0	8.6
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	27.5	22.3	17.1
92.5°	34.4	43.2	49.6	54.9	57.3	57.0	57.3	54.9	49.6	43.2	34.4
95°	69.2	79.6	90.0	97.5	101.9	100.5	101.9	97.5	90.0	79.6	69.2
97.5°	106.7	120.7	132.3	139.3	143.8	146.7	143.8	139.3	132.3	120.7	106.7
100°	131.7	145.1	158.5	166.7	174.1	177.1	174.1	166.7	158.5	145.1	131.7
102.5°	151.9	169.5	184.1	192.9	199.1	202.1	199.1	192.9	184.1	169.5	151.9
105°	185.3	203.9	219.5	230.7	237.4	239.6	237.4	230.7	219.5	203.9	185.3
107.5°	218.6	237.8	252.2	264.6	272.8	277.5	272.8	264.6	252.2	237.8	218.6
110°	244.8	260.4	276.1	287.2	295.4	298.4	295.4	287.2	276.1	260.4	244.8



TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.8	284.2	299.9	311.0	320.4	324.6	320.4	311.0	299.9	284.2	266.8
115°	297.6	320.7	334.8	345.3	352.0	355.7	352.0	345.3	334.8	320.7	297.6
117.5°	323.2	347.3	362.8	370.9	374.0	376.7	374.0	370.9	362.8	347.3	323.2
120°	339.3	361.6	379.5	389.9	393.6	395.1	393.6	389.9	379.5	361.6	339.3
122.5°	354.2	375.3	392.6	405.4	411.5	413.0	411.5	405.4	392.6	375.3	354.2
125°	375.0	395.1	413.0	425.6	432.3	436.0	432.3	425.6	413.0	395.1	375.0
127.5°	393.2	414.9	431.3	442.7	449.3	452.3	449.3	442.7	431.3	414.9	393.2
130°	403.3	425.6	442.0	454.6	460.6	463.6	460.6	454.6	442.0	425.6	403.3
132.5°	411.0	434.6	451.5	463.0	469.5	472.5	469.5	463.0	451.5	434.6	411.0
135°	420.4	445.0	462.8	474.0	479.9	482.9	479.9	474.0	462.8	445.0	420.4
137.5°	428.6	450.9	469.5	481.3	486.6	488.6	486.6	481.3	469.5	450.9	428.6
140°	434.6	453.9	472.5	483.7	489.6	490.4	489.6	483.7	472.5	453.9	434.6
142.5°	442.3	457.5	473.7	484.9	490.8	492.1	490.8	484.9	473.7	457.5	442.3
145°	456.1	465.1	476.2	486.6	491.8	493.3	491.8	486.6	476.2	465.1	456.1
147.5°	473.5	476.4	482.2	489.0	494.1	495.1	494.1	489.0	482.2	476.4	473.5
150°	486.6	485.9	488.1	492.6	497.1	496.3	497.1	492.6	488.1	485.9	486.6
152.5°	501.5	497.2	497.1	499.1	501.2	501.1	501.2	499.1	497.1	497.2	501.5
155°	526.8	518.6	514.2	512.7	512.7	511.9	512.7	512.7	514.2	518.6	526.8
157.5°	554.6	543.2	536.5	532.9	531.9	530.2	531.9	532.9	536.5	543.2	554.6
160°	573.7	561.0	554.4	548.4	546.2	543.9	546.2	548.4	554.4	561.0	573.7
162.5°	591.6	579.5	572.2	566.9	564.6	561.2	564.6	566.9	572.2	579.5	591.6
165°	620.6	607.9	599.7	595.3	592.3	589.3	592.3	595.3	599.7	607.9	620.6
167.5°	649.6	635.8	630.4	625.3	622.5	617.2	622.5	625.3	630.4	635.8	649.6
170°	667.5	654.8	651.8	647.4	642.2	636.2	642.2	647.4	651.8	654.8	667.5
172.5°	682.9	674.4	671.5	667.0	665.4	660.6	665.4	667.0	671.5	674.4	682.9
175°	705.4	698.7	698.7	698.0	695.7	691.3	695.7	698.0	698.7	698.7	705.4
177.5°	724.2	720.6	723.0	723.0	722.4	718.2	722.4	723.0	723.0	720.6	724.2
180°	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7	736.7



TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1189.4	1189.4	1189.4	1189.4
2.5°	1190.0	1197.9	1192.3	1186.7
5°	1167.1	1190.6	1191.1	1191.7
7.5°	1107.2	1138.7	1154.3	1169.9
10°	1067.9	1103.6	1127.3	1150.9
12.5°	1032.6	1071.7	1109.1	1146.4
15°	981.5	1021.3	1077.6	1133.9
17.5°	936.5	971.4	1032.1	1092.7
20°	911.8	944.1	1003.9	1063.8
22.5°	889.4	918.0	978.7	1039.3
25°	849.5	870.4	938.8	1007.2
27.5°	812.5	825.9	897.3	968.7
30°	788.0	798.7	870.1	941.6
32.5°	760.0	767.6	841.5	915.3
35°	723.9	729.9	806.9	883.8
37.5°	683.1	685.8	768.3	850.8
40°	654.1	654.2	740.7	827.3
42.5°	626.3	628.9	715.4	801.9
45°	580.5	583.8	673.8	763.9
47.5°	546.7	547.5	633.3	719.1
50°	526.2	522.7	603.7	684.7
52.5°	506.6	497.3	574.2	651.2
55°	476.4	455.3	529.2	603.2
57.5°	427.1	412.4	482.3	552.3
60°	386.7	384.8	452.7	520.6
62.5°	348.3	357.7	422.4	487.1
65°	296.9	314.6	373.5	432.3
67.5°	249.6	269.5	320.8	372.1
70°	219.2	239.9	285.2	330.4
72.5°	187.2	208.4	247.3	286.1
75°	140.0	160.6	191.8	222.9
77.5°	99.0	115.7	138.4	161.2
80°	72.4	88.0	105.1	122.2
82.5°	50.7	60.7	73.3	86.0
85°	24.1	26.4	32.4	38.5
87.5°	9.0	9.0	8.8	8.6
90°	13.4	8.2	5.2	2.2
92.5°	28.9	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.1
97.5°	92.4	73.2	60.0	44.1
100°	110.9	92.3	79.6	62.5
102.5°	131.1	115.5	98.1	81.0
105°	167.4	148.1	128.0	108.6
107.5°	201.1	179.8	155.7	138.3
110°	222.5	199.4	174.1	158.5

TEST NUMBER: P1427868

CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	243.3	219.7	193.8	178.1
115°	271.6	245.6	221.7	208.3
117.5°	298.8	272.0	246.9	236.3
120°	315.5	288.7	264.2	256.0
122.5°	329.2	303.0	280.2	276.8
125°	349.7	322.9	303.6	308.1
127.5°	366.4	341.8	329.6	339.6
130°	376.5	354.9	347.5	361.6
132.5°	385.4	368.6	365.4	384.8
135°	398.8	389.2	392.1	418.9
137.5°	414.8	411.0	421.0	454.8
140°	424.9	427.1	441.2	479.2
142.5°	438.6	443.8	462.1	502.4
145°	459.9	471.0	494.8	535.0
147.5°	484.0	498.4	527.9	569.1
150°	500.0	518.6	549.9	589.3
152.5°	518.5	537.7	568.9	609.0
155°	546.9	568.5	601.2	635.5
157.5°	575.9	598.0	629.2	659.1
160°	593.8	617.6	645.9	673.4
162.5°	614.0	636.1	660.8	685.3
165°	643.6	661.5	681.6	702.4
167.5°	668.5	683.4	699.2	715.4
170°	684.6	696.5	709.9	722.5
172.5°	698.3	707.8	717.6	728.5
175°	716.6	721.8	727.7	734.4
177.5°	730.7	732.5	734.3	737.3
180°	736.7	736.7	736.7	736.7



TEST NUMBER: P1427868  
 CATALOG NUMBER: SQ2W-PH1-K-050U-050D-L835-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	17.60	18.50	18.51	19.43	20.63	16.43	17.33	17.34	18.26	19.46
	3H	19.77	20.58	20.70	21.52	22.74	17.48	18.29	18.41	19.23	20.45
	4H	20.59	21.35	21.53	22.30	23.53	17.73	18.49	18.67	19.43	20.66
	6H	21.06	21.76	22.01	22.71	23.96	17.87	18.57	18.82	19.52	20.77
	8H	21.21	21.88	22.17	22.85	24.09	17.93	18.60	18.89	19.56	20.81
	12H	21.27	21.91	22.24	22.87	24.14	17.94	18.58	18.91	19.54	20.81
4H	2H	18.04	18.80	18.98	19.75	20.98	17.11	17.88	18.06	18.82	20.05
	3H	20.29	20.93	21.25	21.90	23.15	18.35	18.98	19.30	19.96	21.20
	4H	21.17	21.75	22.13	22.72	23.99	18.64	19.22	19.61	20.19	21.46
	6H	21.73	22.23	22.71	23.22	24.49	18.84	19.34	19.82	20.33	21.60
	8H	21.93	22.40	22.91	23.38	24.67	18.93	19.40	19.91	20.38	21.67
	12H	22.02	22.44	23.02	23.44	24.73	18.96	19.38	19.96	20.38	21.67
8H	4H	21.19	21.66	22.17	22.65	23.93	18.87	19.34	19.85	20.33	21.61
	6H	21.82	22.21	22.83	23.24	24.52	19.14	19.53	20.15	20.56	21.84
	8H	22.09	22.43	23.10	23.44	24.74	19.29	19.63	20.30	20.64	21.95
	12H	22.22	22.52	23.24	23.53	24.87	19.36	19.65	20.37	20.66	22.01
12H	4H	21.15	21.57	22.15	22.57	23.86	18.87	19.29	19.87	20.29	21.58
	6H	21.80	22.14	22.82	23.16	24.46	19.18	19.52	20.19	20.53	21.83
	8H	22.07	22.37	23.09	23.38	24.73	19.34	19.64	20.36	20.65	22.00