

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: P1428602

Luminaire Tested: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428602  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

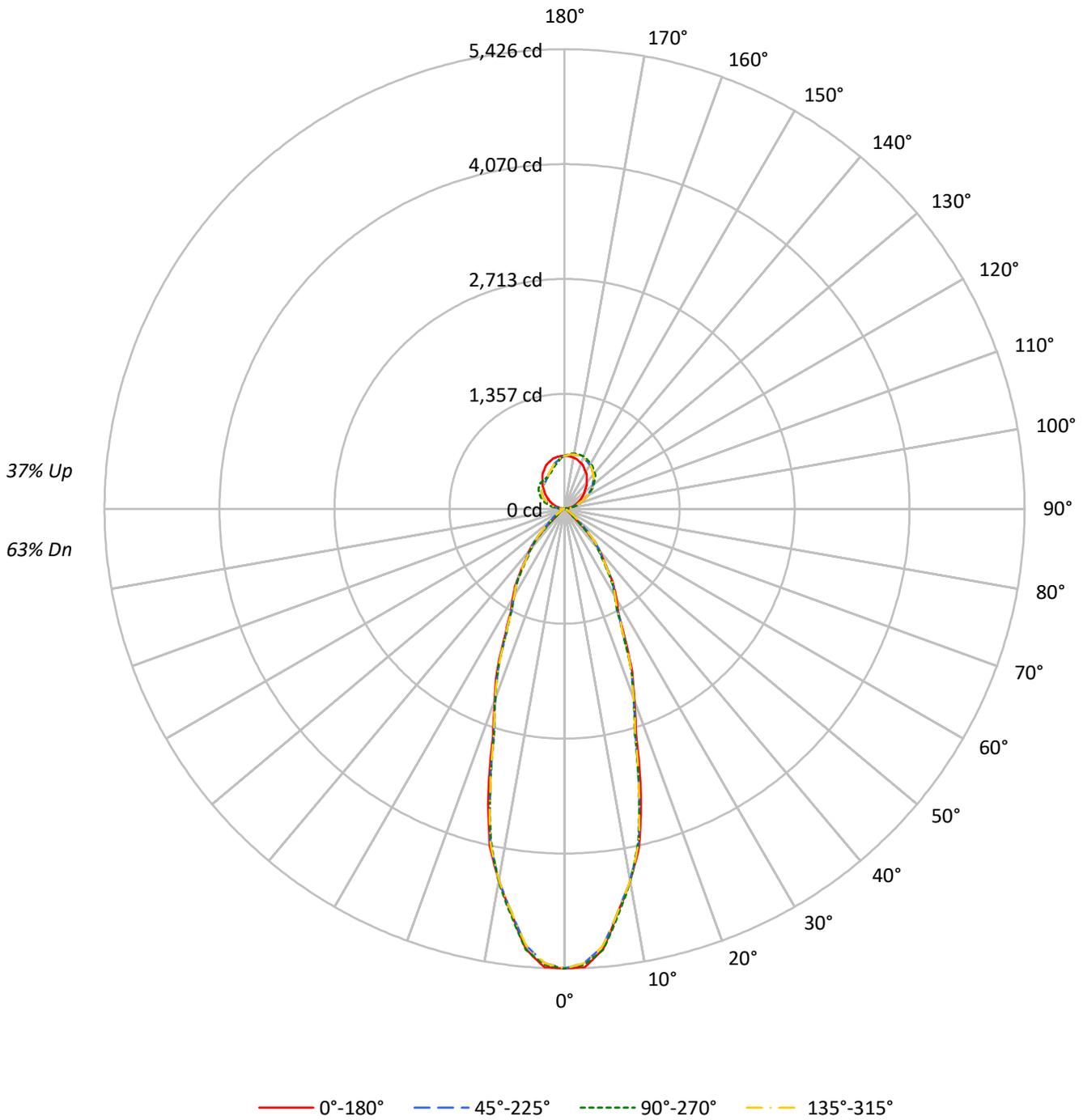
Lumens per Lamp: N/A  
Luminaire Lumens: 4981.1 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 42.5  
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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CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-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	0
RCR																		
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	104	100	97	95	97	95	92	90	84	82	80	74	73	72	65	64	63	59
2	97	91	87	83	91	87	83	79	77	74	72	69	67	65	61	60	58	55
3	91	84	78	74	86	80	75	71	72	68	65	64	62	59	58	56	54	51
4	86	77	71	66	81	73	68	64	67	63	59	60	57	55	54	52	50	47
5	80	71	65	60	76	68	62	58	62	58	54	57	53	51	51	49	47	44
6	76	66	60	55	72	63	58	53	58	54	50	53	50	47	49	46	44	42
7	72	62	55	51	68	59	53	49	55	50	47	50	47	44	46	43	41	39
8	68	58	51	47	64	55	50	46	51	47	43	47	44	41	44	41	39	37
9	64	54	48	44	61	52	46	43	48	44	41	45	41	39	42	39	37	35
10	61	51	45	41	58	49	44	40	46	41	38	43	39	36	40	37	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	87598	87598	87598	87598
5°	84577	84671	84577	84671
10°	73105	73279	73105	73279
15°	58174	56566	58174	56566
20°	41326	41078	41326	41078
25°	29731	28943	29731	28943
30°	22717	22053	22717	22053
35°	17832	17073	17832	17073
40°	13510	12678	13510	12678
45°	7560	6747	7560	6747
50°	2660	2346	2660	2346
55°	1624	1545	1624	1545
60°	1243	1150	1243	1150
65°	1138	1066	1138	1066
70°	1090	1001	1090	1001
75°	1023	961	1023	961
80°	893	893	893	893
85°	889	704	889	704

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 8964 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.0	9.5
10°-20°	936.0	18.8
20°-30°	775.2	15.6
30°-40°	557.6	11.2
40°-50°	284.1	5.7
50°-60°	73.9	1.5
60°-70°	30.7	0.6
70°-80°	17.0	0.3
80°-90°	7.6	0.2
90°-100°	49.8	1.0
100°-110°	145.3	2.9
110°-120°	237.1	4.8
120°-130°	300.9	6.0
130°-140°	322.0	6.5
140°-150°	300.7	6.0
150°-160°	247.4	5.0
160°-170°	165.9	3.3
170°-180°	58.9	1.2
0°-30°	2182.1	43.8
0°-40°	2739.8	55.0
0°-60°	3097.7	62.2
0°-90°	3153.1	63.3
90°-120°	432.3	8.7
90°-150°	1355.8	27.2
90°-180°	1828.0	36.7
0°-180°	4981.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5426	5426	5426	5426	5426	
5°	5218	5224	5218	5224	5218	471
15°	3480	3384	3480	3384	3480	945
25°	1669	1625	1669	1625	1669	785
35°	905	866	905	866	905	568
45°	331	296	331	296	331	265
55°	58	55	58	55	58	57
65°	30	28	30	28	30	30
75°	16	15	16	15	16	17
85°	5	4	5	4	5	5
90°	2	14	2	27	2	2
95°	20	14	20	85	20	24
105°	92	148	92	204	92	98
115°	177	245	177	302	177	175
125°	262	389	262	371	262	234
135°	356	509	356	410	356	275
145°	455	587	455	419	455	285
155°	540	638	540	435	540	248
165°	597	665	597	501	597	168
175°	624	651	624	588	624	59
180°	626	626	626	626	626	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	5417.0	5412.9	5408.8	5390.6	5367.6	5365.8	5384.9	5398.1	5393.3	5388.5	5393.3
5°	5218.5	5215.1	5211.7	5196.1	5176.4	5183.3	5216.6	5239.7	5232.0	5224.3	5232.0
7.5°	4808.7	4811.6	4814.5	4806.5	4794.9	4803.8	4833.4	4853.4	4845.2	4837.0	4845.2
10°	4459.1	4466.8	4474.5	4463.6	4446.5	4459.6	4502.8	4527.9	4498.8	4469.7	4498.8
12.5°	4073.4	4068.4	4063.5	4053.5	4041.9	4039.5	4046.4	4047.6	4031.5	4015.4	4031.5
15°	3480.3	3462.3	3444.4	3416.8	3386.0	3375.9	3386.6	3393.5	3388.8	3384.1	3388.8
17.5°	2803.3	2810.2	2817.2	2798.5	2771.3	2757.2	2756.1	2754.0	2748.7	2743.4	2748.7
20°	2405.2	2407.4	2409.5	2397.8	2381.6	2377.7	2386.3	2392.5	2391.6	2390.8	2391.6
22.5°	2084.9	2085.3	2085.8	2070.3	2049.6	2045.6	2058.3	2065.9	2058.2	2050.5	2058.2
25°	1668.9	1667.6	1666.4	1656.1	1642.8	1633.0	1626.6	1622.1	1623.4	1624.7	1623.4
27.5°	1368.6	1363.3	1358.0	1349.3	1339.3	1336.5	1340.8	1343.2	1340.0	1336.9	1340.0
30°	1218.5	1214.2	1209.9	1201.2	1190.9	1187.1	1189.6	1190.6	1186.7	1182.9	1186.7
32.5°	1083.7	1083.9	1084.1	1076.2	1065.6	1059.7	1058.5	1056.9	1054.0	1051.2	1054.0
35°	904.7	907.3	909.9	903.4	894.0	886.1	879.7	873.9	870.1	866.2	870.1
37.5°	745.0	747.4	749.7	744.4	736.4	727.7	718.3	710.5	707.2	704.0	707.2
40°	641.0	642.7	644.4	640.7	635.1	626.8	615.7	606.7	604.1	601.5	604.1
42.5°	527.8	535.0	542.2	539.8	534.3	526.3	515.8	506.6	500.9	495.3	500.9
45°	331.1	353.8	376.4	386.6	392.6	389.8	378.3	361.4	328.4	295.5	328.4
47.5°	167.5	198.9	230.3	252.8	272.4	266.2	234.1	201.9	169.6	137.2	169.6
50°	105.9	127.7	149.5	177.1	206.6	200.2	157.8	122.4	107.9	93.4	107.9
52.5°	81.2	92.4	103.6	129.9	161.1	158.1	120.9	91.0	82.9	74.9	82.9
55°	57.7	62.0	66.3	80.8	98.8	97.7	77.6	61.7	58.3	54.9	58.3
57.5°	44.7	47.1	49.4	54.9	61.3	60.7	53.1	46.8	44.7	42.5	44.7
60°	38.5	40.2	41.9	44.6	47.6	47.2	43.3	39.9	37.8	35.6	37.8
62.5°	34.6	35.7	36.7	37.9	39.2	38.6	36.1	34.1	33.3	32.5	33.3
65°	29.8	30.3	30.7	30.8	30.8	30.4	29.5	28.8	28.3	27.9	28.3
67.5°	25.4	25.8	26.3	26.3	26.2	26.0	25.5	25.1	24.7	24.3	24.7
70°	23.1	23.5	24.0	23.7	23.3	22.9	22.5	22.0	21.6	21.2	21.6
72.5°	20.0	20.4	20.9	20.7	20.2	20.0	19.9	19.7	19.3	18.9	19.3
75°	16.4	16.4	16.4	16.4	16.4	16.1	15.7	15.4	15.4	15.4	15.4
77.5°	12.7	12.8	12.9	12.6	12.1	11.9	11.9	11.8	11.5	11.2	11.5
80°	9.6	10.1	10.5	10.3	9.8	9.6	9.6	9.6	9.6	9.6	9.6
82.5°	8.1	8.2	8.3	8.0	7.5	7.3	7.3	7.3	7.3	7.3	7.3
85°	4.8	4.8	4.8	4.5	4.1	4.1	4.5	4.7	4.3	3.8	4.3
87.5°	1.9	2.4	3.1	3.6	3.9	4.1	4.1	4.2	4.3	4.3	4.3
90°	1.9	4.4	7.6	10.1	12.0	12.6	12.6	13.3	13.9	13.9	13.9
92.5°	7.0	11.0	11.1	11.1	13.5	14.7	15.7	15.8	16.4	16.4	16.4
95°	19.6	21.5	32.3	31.6	21.5	17.1	14.5	14.5	14.5	14.5	14.5
97.5°	37.4	40.2	42.0	56.3	59.4	57.4	46.8	39.3	35.2	33.3	35.2
100°	53.1	54.4	58.2	58.8	74.6	89.8	82.2	72.7	69.6	67.7	69.6
102.5°	68.8	69.6	75.4	78.0	81.7	90.3	116.6	113.7	111.6	111.2	111.6
105°	92.3	93.0	103.7	108.8	111.3	111.3	110.7	123.3	143.6	148.0	143.6
107.5°	117.5	120.4	133.1	146.6	149.5	150.3	147.0	145.1	144.3	144.8	144.3
110°	134.7	139.1	154.3	171.4	175.8	177.1	175.8	173.9	172.6	172.6	172.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	151.4	157.8	175.0	194.7	202.1	205.9	203.1	201.7	200.5	201.5	200.5
115°	177.1	186.6	209.3	229.6	244.7	246.6	246.0	246.0	245.4	245.4	245.4
117.5°	200.9	216.0	241.6	265.1	282.7	287.7	290.3	289.5	288.8	290.0	288.8
120°	217.5	235.3	264.3	290.9	308.0	315.6	318.1	316.8	318.1	316.8	318.1
122.5°	235.3	257.0	285.6	313.2	333.3	341.9	344.9	345.2	345.4	344.7	345.4
125°	261.8	288.4	321.9	350.4	371.2	381.3	383.9	384.5	385.8	388.9	385.8
127.5°	288.6	318.7	355.5	383.0	404.4	416.6	420.5	421.9	424.6	426.0	424.6
130°	307.3	341.5	378.8	404.7	425.6	438.9	445.8	447.7	450.9	450.3	450.9
132.5°	327.1	362.7	400.6	427.5	446.9	461.2	467.1	472.5	473.7	474.6	473.7
135°	356.0	394.6	432.6	459.1	477.5	491.4	499.0	504.0	507.2	509.1	507.2
137.5°	386.5	427.3	463.7	487.3	505.8	517.8	526.4	531.7	535.0	536.5	535.0
140°	407.3	446.5	481.9	506.6	523.0	535.0	542.6	548.9	552.7	552.7	552.7
142.5°	427.0	465.7	500.1	524.8	539.2	550.2	558.3	563.1	567.4	567.4	567.4
145°	454.7	493.3	524.9	549.6	561.6	571.7	580.5	584.3	586.9	586.9	586.9
147.5°	483.7	517.8	546.7	570.3	580.4	592.3	599.3	602.3	605.5	604.1	605.5
150°	500.9	532.5	560.3	582.4	592.6	603.9	610.9	613.4	616.6	614.7	616.6
152.5°	517.6	547.7	573.0	593.6	602.2	613.6	621.5	624.1	626.2	624.8	626.2
155°	540.1	566.6	590.0	609.0	616.6	627.3	634.9	638.1	640.6	637.5	640.6
157.5°	560.2	583.1	603.4	620.9	629.0	638.2	645.3	649.2	651.8	650.4	651.8
160°	572.3	593.2	611.5	628.0	635.6	643.8	651.4	655.8	658.3	656.4	658.3
162.5°	582.4	601.3	618.6	633.5	640.1	647.3	656.4	660.4	662.9	660.5	662.9
165°	597.0	612.2	627.3	640.0	645.7	651.4	660.9	665.3	667.2	664.7	667.2
167.5°	608.0	619.6	631.9	642.8	647.0	652.5	662.0	665.7	668.1	664.9	668.1
170°	614.1	624.2	634.9	643.8	647.0	652.0	661.5	664.7	666.6	663.4	666.6
172.5°	619.1	626.7	635.4	643.3	644.9	649.0	658.0	661.1	662.5	659.9	662.5
175°	624.2	628.6	634.9	640.0	639.4	641.9	649.5	652.0	654.5	650.7	654.5
177.5°	626.6	628.6	630.6	633.7	631.6	631.6	637.2	638.7	639.2	637.2	639.2
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	5398.1	5384.9	5365.8	5367.6	5390.6	5408.8	5412.9	5417.0	5412.9	5408.8	5390.6
5°	5239.7	5216.6	5183.3	5176.4	5196.1	5211.7	5215.1	5218.5	5215.1	5211.7	5196.1
7.5°	4853.4	4833.4	4803.8	4794.9	4806.5	4814.5	4811.6	4808.7	4811.6	4814.5	4806.5
10°	4527.9	4502.8	4459.6	4446.5	4463.6	4474.5	4466.8	4459.1	4466.8	4474.5	4463.6
12.5°	4047.6	4046.4	4039.5	4041.9	4053.5	4063.5	4068.4	4073.4	4068.4	4063.5	4053.5
15°	3393.5	3386.6	3375.9	3386.0	3416.8	3444.4	3462.3	3480.3	3462.3	3444.4	3416.8
17.5°	2754.0	2756.1	2757.2	2771.3	2798.5	2817.2	2810.2	2803.3	2810.2	2817.2	2798.5
20°	2392.5	2386.3	2377.7	2381.6	2397.8	2409.5	2407.4	2405.2	2407.4	2409.5	2397.8
22.5°	2065.9	2058.3	2045.6	2049.6	2070.3	2085.8	2085.3	2084.9	2085.3	2085.8	2070.3
25°	1622.1	1626.6	1633.0	1642.8	1656.1	1666.4	1667.6	1668.9	1667.6	1666.4	1656.1
27.5°	1343.2	1340.8	1336.5	1339.3	1349.3	1358.0	1363.3	1368.6	1363.3	1358.0	1349.3
30°	1190.6	1189.6	1187.1	1190.9	1201.2	1209.9	1214.2	1218.5	1214.2	1209.9	1201.2
32.5°	1056.9	1058.5	1059.7	1065.6	1076.2	1084.1	1083.9	1083.7	1083.9	1084.1	1076.2
35°	873.9	879.7	886.1	894.0	903.4	909.9	907.3	904.7	907.3	909.9	903.4
37.5°	710.5	718.3	727.7	736.4	744.4	749.7	747.4	745.0	747.4	749.7	744.4
40°	606.7	615.7	626.8	635.1	640.7	644.4	642.7	641.0	642.7	644.4	640.7
42.5°	506.6	515.8	526.3	534.3	539.8	542.2	535.0	527.8	535.0	542.2	539.8
45°	361.4	378.3	389.8	392.6	386.6	376.4	353.8	331.1	353.8	376.4	386.6
47.5°	201.9	234.1	266.2	272.4	252.8	230.3	198.9	167.5	198.9	230.3	252.8
50°	122.4	157.8	200.2	206.6	177.1	149.5	127.7	105.9	127.7	149.5	177.1
52.5°	91.0	120.9	158.1	161.1	129.9	103.6	92.4	81.2	92.4	103.6	129.9
55°	61.7	77.6	97.7	98.8	80.8	66.3	62.0	57.7	62.0	66.3	80.8
57.5°	46.8	53.1	60.7	61.3	54.9	49.4	47.1	44.7	47.1	49.4	54.9
60°	39.9	43.3	47.2	47.6	44.6	41.9	40.2	38.5	40.2	41.9	44.6
62.5°	34.1	36.1	38.6	39.2	37.9	36.7	35.7	34.6	35.7	36.7	37.9
65°	28.8	29.5	30.4	30.8	30.8	30.7	30.3	29.8	30.3	30.7	30.8
67.5°	25.1	25.5	26.0	26.2	26.3	26.3	25.8	25.4	25.8	26.3	26.3
70°	22.0	22.5	22.9	23.3	23.7	24.0	23.5	23.1	23.5	24.0	23.7
72.5°	19.7	19.9	20.0	20.2	20.7	20.9	20.4	20.0	20.4	20.9	20.7
75°	15.4	15.7	16.1	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
77.5°	11.8	11.9	11.9	12.1	12.6	12.9	12.8	12.7	12.8	12.9	12.6
80°	9.6	9.6	9.6	9.8	10.3	10.5	10.1	9.6	10.1	10.5	10.3
82.5°	7.3	7.3	7.3	7.5	8.0	8.3	8.2	8.1	8.2	8.3	8.0
85°	4.7	4.5	4.1	4.1	4.5	4.8	4.8	4.8	4.8	4.8	4.5
87.5°	4.2	4.1	4.1	3.9	3.6	3.1	2.4	1.9	2.4	2.9	3.8
90°	13.3	12.6	12.6	12.0	10.1	7.6	4.4	1.9	4.4	7.0	11.4
92.5°	15.8	15.7	14.7	13.5	11.1	11.1	11.0	7.0	12.0	17.1	24.5
95°	14.5	14.5	17.1	21.5	31.6	32.3	21.5	19.6	27.8	39.2	49.3
97.5°	39.3	46.8	57.4	59.4	56.3	42.0	40.2	37.4	51.0	62.2	78.5
100°	72.7	82.2	89.8	74.6	58.8	58.2	54.4	53.1	67.7	78.4	94.2
102.5°	113.7	116.6	90.3	81.7	78.0	75.4	69.6	68.8	83.4	98.1	111.4
105°	123.3	110.7	111.3	111.3	108.8	103.7	93.0	92.3	108.8	125.8	142.3
107.5°	145.1	147.0	150.3	149.5	146.6	133.1	120.4	117.5	132.3	152.8	170.9
110°	173.9	175.8	177.1	175.8	171.4	154.3	139.1	134.7	148.0	169.5	189.1



TEST NUMBER: P1428602

CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	201.7	203.1	205.9	202.1	194.7	175.0	157.8	151.4	164.7	186.7	206.8
115°	246.0	246.0	246.6	244.7	229.6	209.3	186.6	177.1	188.5	208.7	230.8
117.5°	289.5	290.3	287.7	282.7	265.1	241.6	216.0	200.9	209.8	231.2	254.0
120°	316.8	318.1	315.6	308.0	290.9	264.3	235.3	217.5	224.5	245.4	268.1
122.5°	345.2	344.9	341.9	333.3	313.2	285.6	257.0	235.3	238.2	257.5	279.8
125°	384.5	383.9	381.3	371.2	350.4	321.9	288.4	261.8	258.0	274.5	297.2
127.5°	421.9	420.5	416.6	404.4	383.0	355.5	318.7	288.6	280.2	290.5	311.4
130°	447.7	445.8	438.9	425.6	404.7	378.8	341.5	307.3	295.3	301.7	320.0
132.5°	472.5	467.1	461.2	446.9	427.5	400.6	362.7	327.1	310.5	313.3	327.6
135°	504.0	499.0	491.4	477.5	459.1	432.6	394.6	356.0	333.3	330.7	339.0
137.5°	531.7	526.4	517.8	505.8	487.3	463.7	427.3	386.5	357.8	349.3	352.5
140°	548.9	542.6	535.0	523.0	506.6	481.9	446.5	407.3	375.0	363.0	361.1
142.5°	563.1	558.3	550.2	539.2	524.8	500.1	465.7	427.0	392.7	377.2	372.7
145°	584.3	580.5	571.7	561.6	549.6	524.9	493.3	454.7	420.5	400.3	390.8
147.5°	602.3	599.3	592.3	580.4	570.3	546.7	517.8	483.7	448.6	423.6	411.3
150°	613.4	610.9	603.9	592.6	582.4	560.3	532.5	500.9	467.3	440.8	425.0
152.5°	624.1	621.5	613.6	602.2	593.6	573.0	547.7	517.6	483.5	457.0	440.7
155°	638.1	634.9	627.3	616.6	609.0	590.0	566.6	540.1	511.0	483.2	464.8
157.5°	649.2	645.3	638.2	629.0	620.9	603.4	583.1	560.2	534.8	508.2	489.5
160°	655.8	651.4	643.8	635.6	628.0	611.5	593.2	572.3	548.9	524.9	504.7
162.5°	660.4	656.4	647.3	640.1	633.5	618.6	601.3	582.4	561.6	540.6	521.9
165°	665.3	660.9	651.4	645.7	640.0	627.3	612.2	597.0	579.3	562.2	547.0
167.5°	665.7	662.0	652.5	647.0	642.8	631.9	619.6	608.0	594.2	580.8	568.2
170°	664.7	661.5	652.0	647.0	643.8	634.9	624.2	614.1	603.3	591.9	581.8
172.5°	661.1	658.0	649.0	644.9	643.3	635.4	626.7	619.1	609.9	601.5	593.4
175°	652.0	649.5	641.9	639.4	640.0	634.9	628.6	624.2	618.5	613.4	609.0
177.5°	638.7	637.2	631.6	631.6	633.7	630.6	628.6	626.6	624.1	622.5	621.0
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1428602

CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5	5425.5
2.5°	5367.6	5365.8	5384.9	5398.1	5393.3	5388.5	5393.3	5398.1	5384.9	5365.8	5367.6
5°	5176.4	5183.3	5216.6	5239.7	5232.0	5224.3	5232.0	5239.7	5216.6	5183.3	5176.4
7.5°	4794.9	4803.8	4833.4	4853.4	4845.2	4837.0	4845.2	4853.4	4833.4	4803.8	4794.9
10°	4446.5	4459.6	4502.8	4527.9	4498.8	4469.7	4498.8	4527.9	4502.8	4459.6	4446.5
12.5°	4041.9	4039.5	4046.4	4047.6	4031.5	4015.4	4031.5	4047.6	4046.4	4039.5	4041.9
15°	3386.0	3375.9	3386.6	3393.5	3388.8	3384.1	3388.8	3393.5	3386.6	3375.9	3386.0
17.5°	2771.3	2757.2	2756.1	2754.0	2748.7	2743.4	2748.7	2754.0	2756.1	2757.2	2771.3
20°	2381.6	2377.7	2386.3	2392.5	2391.6	2390.8	2391.6	2392.5	2386.3	2377.7	2381.6
22.5°	2049.6	2045.6	2058.3	2065.9	2058.2	2050.5	2058.2	2065.9	2058.3	2045.6	2049.6
25°	1642.8	1633.0	1626.6	1622.1	1623.4	1624.7	1623.4	1622.1	1626.6	1633.0	1642.8
27.5°	1339.3	1336.5	1340.8	1343.2	1340.0	1336.9	1340.0	1343.2	1340.8	1336.5	1339.3
30°	1190.9	1187.1	1189.6	1190.6	1186.7	1182.9	1186.7	1190.6	1189.6	1187.1	1190.9
32.5°	1065.6	1059.7	1058.5	1056.9	1054.0	1051.2	1054.0	1056.9	1058.5	1059.7	1065.6
35°	894.0	886.1	879.7	873.9	870.1	866.2	870.1	873.9	879.7	886.1	894.0
37.5°	736.4	727.7	718.3	710.5	707.2	704.0	707.2	710.5	718.3	727.7	736.4
40°	635.1	626.8	615.7	606.7	604.1	601.5	604.1	606.7	615.7	626.8	635.1
42.5°	534.3	526.3	515.8	506.6	500.9	495.3	500.9	506.6	515.8	526.3	534.3
45°	392.6	389.8	378.3	361.4	328.4	295.5	328.4	361.4	378.3	389.8	392.6
47.5°	272.4	266.2	234.1	201.9	169.6	137.2	169.6	201.9	234.1	266.2	272.4
50°	206.6	200.2	157.8	122.4	107.9	93.4	107.9	122.4	157.8	200.2	206.6
52.5°	161.1	158.1	120.9	91.0	82.9	74.9	82.9	91.0	120.9	158.1	161.1
55°	98.8	97.7	77.6	61.7	58.3	54.9	58.3	61.7	77.6	97.7	98.8
57.5°	61.3	60.7	53.1	46.8	44.7	42.5	44.7	46.8	53.1	60.7	61.3
60°	47.6	47.2	43.3	39.9	37.8	35.6	37.8	39.9	43.3	47.2	47.6
62.5°	39.2	38.6	36.1	34.1	33.3	32.5	33.3	34.1	36.1	38.6	39.2
65°	30.8	30.4	29.5	28.8	28.3	27.9	28.3	28.8	29.5	30.4	30.8
67.5°	26.2	26.0	25.5	25.1	24.7	24.3	24.7	25.1	25.5	26.0	26.2
70°	23.3	22.9	22.5	22.0	21.6	21.2	21.6	22.0	22.5	22.9	23.3
72.5°	20.2	20.0	19.9	19.7	19.3	18.9	19.3	19.7	19.9	20.0	20.2
75°	16.4	16.1	15.7	15.4	15.4	15.4	15.4	15.4	15.7	16.1	16.4
77.5°	12.1	11.9	11.9	11.8	11.5	11.2	11.5	11.8	11.9	11.9	12.1
80°	9.8	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.8
82.5°	7.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5
85°	4.1	4.1	4.5	4.7	4.3	3.8	4.3	4.7	4.5	4.1	4.1
87.5°	4.4	5.3	6.2	6.7	7.2	7.0	7.2	6.7	6.2	5.3	4.4
90°	14.5	19.0	23.4	25.9	28.5	27.2	28.5	25.9	23.4	19.0	14.5
92.5°	29.2	36.7	42.1	46.7	48.7	48.4	48.7	46.7	42.1	36.7	29.2
95°	58.8	67.7	76.5	82.8	86.6	85.4	86.6	82.8	76.5	67.7	58.8
97.5°	90.7	102.6	112.4	118.4	122.2	124.7	122.2	118.4	112.4	102.6	90.7
100°	111.9	123.3	134.7	141.7	148.0	150.5	148.0	141.7	134.7	123.3	111.9
102.5°	129.1	144.1	156.5	163.9	169.2	171.8	169.2	163.9	156.5	144.1	129.1
105°	157.5	173.3	186.6	196.0	201.7	203.6	201.7	196.0	186.6	173.3	157.5
107.5°	185.8	202.1	214.4	224.9	231.8	235.9	231.8	224.9	214.4	202.1	185.8
110°	208.1	221.3	234.6	244.1	251.1	253.6	251.1	244.1	234.6	221.3	208.1



TEST NUMBER: P1428602

CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	226.8	241.6	254.9	264.3	272.3	275.9	272.3	264.3	254.9	241.6	226.8
115°	253.0	272.6	284.6	293.4	299.1	302.3	299.1	293.4	284.6	272.6	253.0
117.5°	274.7	295.2	308.4	315.2	317.8	320.1	317.8	315.2	308.4	295.2	274.7
120°	288.4	307.3	322.5	331.4	334.5	335.8	334.5	331.4	322.5	307.3	288.4
122.5°	301.0	319.0	333.7	344.5	349.7	351.0	349.7	344.5	333.7	319.0	301.0
125°	318.7	335.8	351.0	361.7	367.4	370.6	367.4	361.7	351.0	335.8	318.7
127.5°	334.2	352.6	366.5	376.3	381.8	384.4	381.8	376.3	366.5	352.6	334.2
130°	342.8	361.7	375.6	386.4	391.5	394.0	391.5	386.4	375.6	361.7	342.8
132.5°	349.3	369.3	383.7	393.5	399.0	401.6	399.0	393.5	383.7	369.3	349.3
135°	357.3	378.2	393.4	402.8	407.9	410.4	407.9	402.8	393.4	378.2	357.3
137.5°	364.3	383.2	399.0	409.0	413.6	415.2	413.6	409.0	399.0	383.2	364.3
140°	369.3	385.8	401.6	411.1	416.1	416.8	416.1	411.1	401.6	385.8	369.3
142.5°	375.9	388.8	402.6	412.1	417.1	418.3	417.1	412.1	402.6	388.8	375.9
145°	387.7	395.3	404.7	413.6	418.0	419.3	418.0	413.6	404.7	395.3	387.7
147.5°	402.5	404.9	409.8	415.6	419.9	420.8	419.9	415.6	409.8	404.9	402.5
150°	413.6	413.0	414.9	418.7	422.4	421.8	422.4	418.7	414.9	413.0	413.6
152.5°	426.2	422.6	422.4	424.2	426.0	425.9	426.0	424.2	422.4	422.6	426.2
155°	447.7	440.8	437.0	435.7	435.7	435.1	435.7	435.7	437.0	440.8	447.7
157.5°	471.4	461.7	456.0	452.9	452.0	450.7	452.0	452.9	456.0	461.7	471.4
160°	487.6	476.8	471.1	466.1	464.2	462.3	464.2	466.1	471.1	476.8	487.6
162.5°	502.8	492.5	486.3	481.8	479.9	477.0	479.9	481.8	486.3	492.5	502.8
165°	527.4	516.7	509.7	505.9	503.4	500.9	503.4	505.9	509.7	516.7	527.4
167.5°	552.1	540.3	535.8	531.5	529.1	524.5	529.1	531.5	535.8	540.3	552.1
170°	567.3	556.5	554.0	550.2	545.8	540.7	545.8	550.2	554.0	556.5	567.3
172.5°	580.4	573.2	570.7	566.9	565.5	561.4	565.5	566.9	570.7	573.2	580.4
175°	599.5	593.8	593.8	593.2	591.3	587.5	591.3	593.2	593.8	593.8	599.5
177.5°	615.5	612.4	614.4	614.4	613.9	610.4	613.9	614.4	614.4	612.4	615.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P1428602

CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	5425.5	5425.5	5425.5	5425.5
2.5°	5390.6	5408.8	5412.9	5417.0
5°	5196.1	5211.7	5215.1	5218.5
7.5°	4806.5	4814.5	4811.6	4808.7
10°	4463.6	4474.5	4466.8	4459.1
12.5°	4053.5	4063.5	4068.4	4073.4
15°	3416.8	3444.4	3462.3	3480.3
17.5°	2798.5	2817.2	2810.2	2803.3
20°	2397.8	2409.5	2407.4	2405.2
22.5°	2070.3	2085.8	2085.3	2084.9
25°	1656.1	1666.4	1667.6	1668.9
27.5°	1349.3	1358.0	1363.3	1368.6
30°	1201.2	1209.9	1214.2	1218.5
32.5°	1076.2	1084.1	1083.9	1083.7
35°	903.4	909.9	907.3	904.7
37.5°	744.4	749.7	747.4	745.0
40°	640.7	644.4	642.7	641.0
42.5°	539.8	542.2	535.0	527.8
45°	386.6	376.4	353.8	331.1
47.5°	252.8	230.3	198.9	167.5
50°	177.1	149.5	127.7	105.9
52.5°	129.9	103.6	92.4	81.2
55°	80.8	66.3	62.0	57.7
57.5°	54.9	49.4	47.1	44.7
60°	44.6	41.9	40.2	38.5
62.5°	37.9	36.7	35.7	34.6
65°	30.8	30.7	30.3	29.8
67.5°	26.3	26.3	25.8	25.4
70°	23.7	24.0	23.5	23.1
72.5°	20.7	20.9	20.4	20.0
75°	16.4	16.4	16.4	16.4
77.5°	12.6	12.9	12.8	12.7
80°	10.3	10.5	10.1	9.6
82.5°	8.0	8.3	8.2	8.1
85°	4.5	4.8	4.8	4.8
87.5°	3.8	2.9	2.4	1.9
90°	11.4	7.0	4.4	1.9
92.5°	24.5	17.1	12.0	7.0
95°	49.3	39.2	27.8	19.6
97.5°	78.5	62.2	51.0	37.4
100°	94.2	78.4	67.7	53.1
102.5°	111.4	98.1	83.4	68.8
105°	142.3	125.8	108.8	92.3
107.5°	170.9	152.8	132.3	117.5
110°	189.1	169.5	148.0	134.7



TEST NUMBER: P1428602

CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	206.8	186.7	164.7	151.4
115°	230.8	208.7	188.5	177.1
117.5°	254.0	231.2	209.8	200.9
120°	268.1	245.4	224.5	217.5
122.5°	279.8	257.5	238.2	235.3
125°	297.2	274.5	258.0	261.8
127.5°	311.4	290.5	280.2	288.6
130°	320.0	301.7	295.3	307.3
132.5°	327.6	313.3	310.5	327.1
135°	339.0	330.7	333.3	356.0
137.5°	352.5	349.3	357.8	386.5
140°	361.1	363.0	375.0	407.3
142.5°	372.7	377.2	392.7	427.0
145°	390.8	400.3	420.5	454.7
147.5°	411.3	423.6	448.6	483.7
150°	425.0	440.8	467.3	500.9
152.5°	440.7	457.0	483.5	517.6
155°	464.8	483.2	511.0	540.1
157.5°	489.5	508.2	534.8	560.2
160°	504.7	524.9	548.9	572.3
162.5°	521.9	540.6	561.6	582.4
165°	547.0	562.2	579.3	597.0
167.5°	568.2	580.8	594.2	608.0
170°	581.8	591.9	603.3	614.1
172.5°	593.4	601.5	609.9	619.1
175°	609.0	613.4	618.5	624.2
177.5°	621.0	622.5	624.1	626.6
180°	626.1	626.1	626.1	626.1



TEST NUMBER: P1428602  
 CATALOG NUMBER: SQ2W-WBN-K-050U-075D-L930-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	2.93	3.68	3.81	4.54	5.63	2.56	3.31	3.44	4.17	5.25
	3H	4.16	4.82	5.05	5.69	6.81	3.77	4.43	4.66	5.31	6.42
	4H	4.68	5.30	5.58	6.18	7.30	4.28	4.91	5.19	5.79	6.91
	6H	5.03	5.60	5.95	6.49	7.62	4.62	5.19	5.53	6.07	7.21
	8H	5.18	5.72	6.10	6.62	7.75	4.75	5.29	5.68	6.20	7.33
	12H	5.27	5.78	6.20	6.68	7.83	4.82	5.34	5.75	6.23	7.39
4H	2H	3.25	3.88	4.17	4.76	5.88	2.95	3.57	3.86	4.45	5.57
	3H	4.75	5.26	5.67	6.18	7.31	4.41	4.92	5.33	5.84	6.97
	4H	5.40	5.86	6.32	6.77	7.94	5.05	5.51	5.97	6.42	7.58
	6H	5.89	6.29	6.83	7.22	8.38	5.50	5.90	6.44	6.83	8.00
	8H	6.10	6.47	7.04	7.40	8.57	5.70	6.07	6.64	6.99	8.17
	12H	6.24	6.57	7.19	7.51	8.69	5.80	6.13	6.76	7.08	8.26
8H	4H	5.56	5.93	6.50	6.85	8.03	5.24	5.61	6.18	6.54	7.71
	6H	6.19	6.49	7.16	7.47	8.64	5.84	6.14	6.80	7.11	8.28
	8H	6.51	6.78	7.49	7.74	8.93	6.12	6.39	7.10	7.35	8.54
	12H	6.74	6.97	7.71	7.92	9.17	6.32	6.55	7.30	7.51	8.75
12H	4H	5.54	5.87	6.49	6.81	7.99	5.23	5.56	6.19	6.51	7.69
	6H	6.23	6.49	7.20	7.45	8.64	5.88	6.15	6.86	7.11	8.30
	8H	6.58	6.81	7.55	7.76	9.01	6.21	6.44	7.18	7.39	8.63