

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: P1191396

Luminaire Tested: SQ2-FA-050D-L835-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191396
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-050D-L835-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

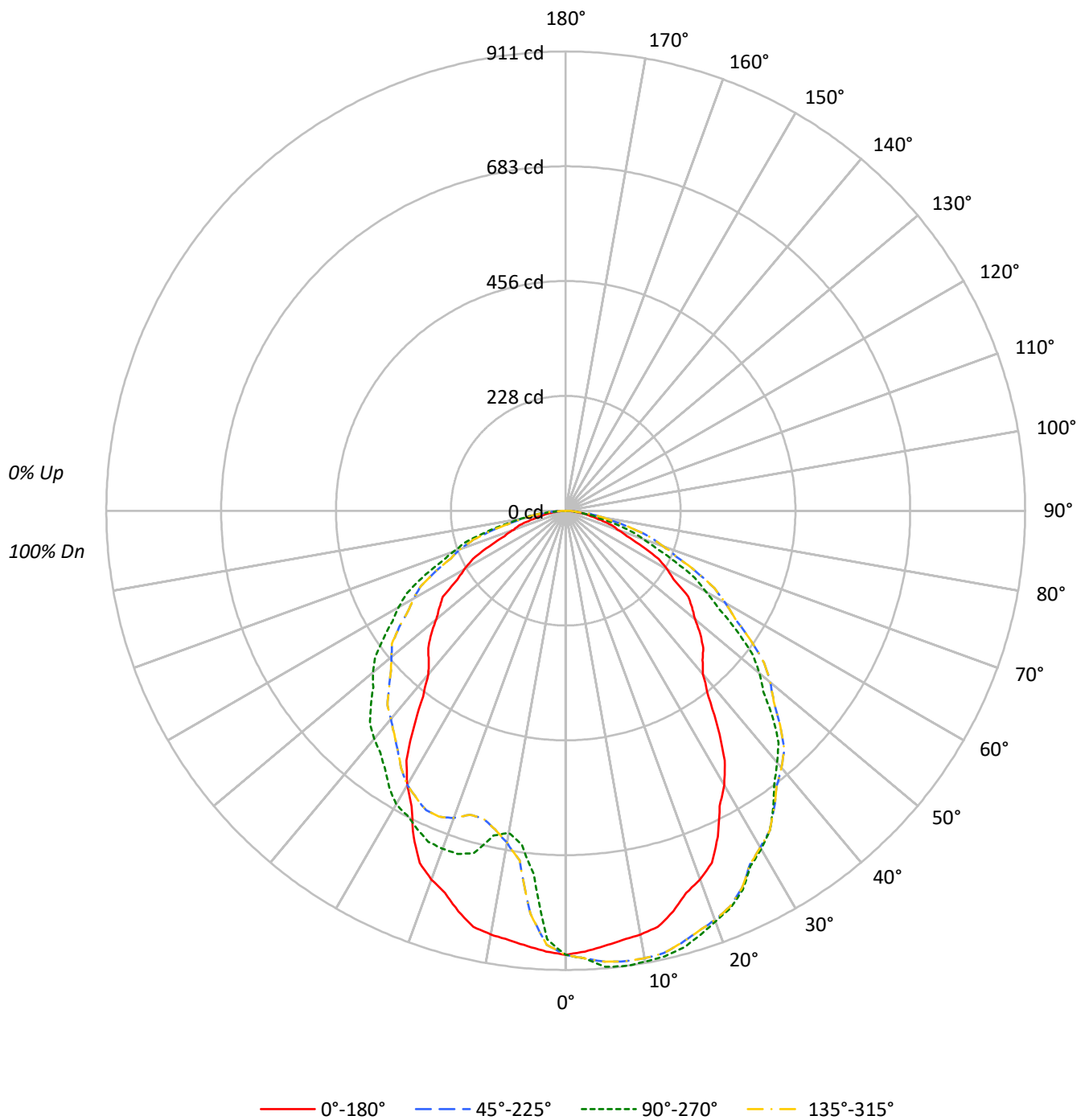
Lumens per Lamp: N/A
Luminaire Lumens: 2187.8 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	47		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14223	14223	14223	14223
5°	14055	14720	14055	11731
10°	13995	14890	13995	10635
15°	13755	15010	13755	11758
20°	13376	14900	13376	12261
25°	12713	14781	12713	12408
30°	11712	14451	11712	12540
35°	10364	14132	10364	12315
40°	8924	13744	8924	12450
45°	8809	13253	8809	12474
50°	8405	12607	8405	12522
55°	8363	11629	8363	12400
60°	7498	10366	7498	12348
65°	6392	9131	6392	12000
70°	5160	7737	5160	11122
75°	4473	6388	4473	10225
80°	3812	4761	3812	8257
85°	2538	2538	2538	5057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 13721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.6
10°-20°	221.5	10.1
20°-30°	336.4	15.4
30°-40°	394.9	18.0
40°-50°	400.7	18.3
50°-60°	351.0	16.0
60°-70°	249.0	11.4
70°-80°	128.2	5.9
80°-90°	26.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	637.1	29.1
0°-40°	1031.9	47.2
0°-60°	1783.6	81.5
0°-90°	2187.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	881	881	881	881	881	
5°	867	908	867	724	867	82
15°	823	898	823	703	823	231
25°	714	830	714	696	714	326
35°	526	717	526	625	526	328
45°	386	580	386	546	386	295
55°	297	413	297	440	297	257
65°	167	239	167	314	167	167
75°	72	102	72	164	72	78
85°	14	14	14	27	14	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	875.4	888.8	889.1	889.1	889.1	889.1	889.1	888.8	875.4	875.4	861.8
5°	867.2	890.6	898.0	901.5	908.2	901.5	898.0	890.6	867.2	857.2	802.4
7.5°	859.1	890.4	901.4	907.6	911.0	907.6	901.4	890.4	859.1	814.3	699.3
10°	853.6	890.3	901.4	904.9	908.2	904.9	901.4	890.3	853.6	763.5	669.2
12.5°	845.4	884.8	898.7	902.2	905.5	902.2	898.7	884.8	845.4	717.9	647.4
15°	822.9	876.3	887.7	894.6	898.0	894.6	887.7	876.3	822.9	679.3	631.7
17.5°	794.9	859.6	874.8	881.0	883.6	881.0	874.8	859.6	794.9	644.6	632.3
20°	778.5	848.6	863.8	867.2	867.2	867.2	863.8	848.6	778.5	628.2	648.7
22.5°	756.6	834.7	850.2	850.9	853.6	850.9	850.2	834.7	756.6	609.1	656.9
25°	713.6	803.7	826.3	823.0	829.7	823.0	826.3	803.7	713.6	583.4	655.6
27.5°	661.0	774.5	790.8	794.2	794.2	794.2	790.8	774.5	661.0	558.2	641.9
30°	628.2	755.1	771.6	775.1	775.1	775.1	771.6	755.1	628.2	541.4	628.2
32.5°	587.3	738.2	752.5	753.2	753.2	753.2	752.5	738.2	587.3	524.5	606.4
35°	525.8	709.4	720.4	720.4	717.0	720.4	720.4	709.4	525.8	499.1	580.4
37.5°	464.4	672.7	687.7	682.8	679.5	682.8	687.7	672.7	464.4	473.0	558.6
40°	423.4	650.4	665.8	655.5	652.1	655.5	665.8	650.4	423.4	453.4	539.5
42.5°	401.5	625.9	641.2	628.2	624.8	628.2	641.2	625.9	401.5	434.2	523.1
45°	385.8	586.1	600.9	587.1	580.4	587.1	600.9	586.1	385.8	405.9	495.1
47.5°	361.9	538.2	559.3	538.6	532.0	538.6	559.3	538.2	361.9	376.6	469.8
50°	334.6	508.2	529.2	508.6	501.9	508.6	529.2	508.2	334.6	354.6	450.7
52.5°	315.5	478.4	496.4	473.1	466.4	473.1	496.4	478.4	315.5	327.5	434.3
55°	297.1	433.9	447.3	423.2	413.1	423.2	447.3	433.9	297.1	287.0	402.9
57.5°	254.0	384.2	398.1	370.5	359.2	370.5	398.1	384.2	254.0	245.3	370.1
60°	232.2	349.0	365.3	337.6	321.0	337.6	365.3	349.0	232.2	215.5	348.3
62.5°	207.6	311.1	332.6	304.9	288.2	304.9	332.6	311.1	207.6	196.2	323.7
65°	167.3	257.4	283.4	255.7	239.0	255.7	283.4	257.4	167.3	174.0	283.4
67.5°	131.1	208.6	237.6	207.3	193.9	207.3	237.6	208.6	131.1	153.1	246.5
70°	109.3	176.0	204.9	177.2	163.9	177.2	204.9	176.0	109.3	139.3	221.9
72.5°	95.6	146.3	177.5	147.3	136.6	147.3	177.5	146.3	95.6	125.6	191.9
75°	71.7	101.7	136.6	109.1	102.4	109.1	136.6	101.7	71.7	101.7	150.2
77.5°	51.9	65.9	96.3	73.0	70.3	73.0	96.3	65.9	51.9	76.6	109.3
80°	41.0	44.3	71.7	51.2	51.2	51.2	71.7	44.3	41.0	57.7	81.9
82.5°	27.3	30.7	49.8	34.8	32.1	34.8	49.8	30.7	27.3	41.3	57.4
85°	13.7	13.7	20.5	13.7	13.7	13.7	20.5	13.7	13.7	20.3	27.3
87.5°	2.7	2.7	5.5	2.7	2.7	2.7	5.5	2.7	2.7	5.4	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	880.9	880.9	880.9	880.9	880.9	880.9
2.5°	853.5	850.9	853.5	861.8	875.4	875.4
5°	740.5	723.8	740.5	802.4	857.2	867.2
7.5°	673.2	667.9	673.2	699.3	814.3	859.1
10°	648.7	648.7	648.7	669.2	763.5	853.6
12.5°	646.3	659.7	646.3	647.4	717.9	845.4
15°	686.7	703.4	686.7	631.7	679.3	822.9
17.5°	700.2	713.6	700.2	632.3	644.6	794.9
20°	700.2	713.6	700.2	648.7	628.2	778.5
22.5°	697.5	710.9	697.5	656.9	609.1	756.6
25°	689.9	696.5	689.9	655.6	583.4	713.6
27.5°	676.2	680.8	676.2	641.9	558.2	661.0
30°	662.6	672.6	662.6	628.2	541.4	628.2
32.5°	648.8	650.8	648.8	606.4	524.5	587.3
35°	628.2	624.8	628.2	580.4	499.1	525.8
37.5°	600.3	604.3	600.3	558.6	473.0	464.4
40°	584.0	590.7	584.0	539.5	453.4	423.4
42.5°	567.6	574.3	567.6	523.1	434.2	401.5
45°	543.0	546.3	543.0	495.1	405.9	385.8
47.5°	514.3	517.6	514.3	469.8	376.6	361.9
50°	495.2	498.5	495.2	450.7	354.6	334.6
52.5°	473.3	476.6	473.3	434.3	327.5	315.5
55°	440.5	440.5	440.5	402.9	287.0	297.1
57.5°	403.0	407.0	403.0	370.1	245.3	254.0
60°	375.7	382.4	375.7	348.3	215.5	232.2
62.5°	351.1	355.1	351.1	323.7	196.2	207.6
65°	310.8	314.1	310.8	283.4	174.0	167.3
67.5°	265.7	268.4	265.7	246.5	153.1	131.1
70°	235.6	235.6	235.6	221.9	139.3	109.3
72.5°	205.6	208.3	205.6	191.9	125.6	95.6
75°	160.6	163.9	160.6	150.2	101.7	71.7
77.5°	115.5	118.8	115.5	109.3	76.6	51.9
80°	85.4	88.8	85.4	81.9	57.7	41.0
82.5°	60.8	61.5	60.8	57.4	41.3	27.3
85°	27.3	27.3	27.3	27.3	20.3	13.7
87.5°	5.5	5.5	5.5	5.5	5.4	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

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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	19.40	21.01	19.77	21.32	21.64	20.63	22.23	20.99	22.55	22.86
	3H	20.54	21.99	20.92	22.32	22.68	21.92	23.37	22.30	23.70	24.06
	4H	20.93	22.29	21.33	22.64	23.02	22.35	23.71	22.74	24.05	24.43
	6H	21.13	22.39	21.54	22.75	23.14	22.54	23.80	22.95	24.17	24.56
	8H	21.18	22.39	21.61	22.78	23.17	22.59	23.79	23.01	24.18	24.58
	12H	21.20	22.36	21.63	22.74	23.17	22.60	23.75	23.03	24.13	24.56
4H	2H	20.42	21.78	20.81	22.13	22.50	21.33	22.69	21.73	23.04	23.41
	3H	21.85	22.98	22.26	23.38	23.78	22.84	23.98	23.25	24.38	24.78
	4H	22.32	23.35	22.76	23.76	24.20	23.34	24.37	23.77	24.78	25.22
	6H	22.59	23.49	23.05	23.93	24.38	23.60	24.50	24.06	24.94	25.39
	8H	22.67	23.50	23.13	23.94	24.41	23.67	24.50	24.13	24.95	25.41
	12H	22.70	23.45	23.18	23.93	24.40	23.69	24.44	24.17	24.92	25.39
8H	4H	22.78	23.62	23.24	24.06	24.52	23.61	24.44	24.07	24.89	25.35
	6H	23.16	23.85	23.65	24.34	24.81	23.95	24.64	24.44	25.13	25.60
	8H	23.28	23.90	23.79	24.41	24.89	24.05	24.67	24.56	25.18	25.66
	12H	23.35	23.90	23.86	24.39	24.95	24.10	24.64	24.61	25.14	25.70
12H	4H	22.82	23.57	23.30	24.04	24.51	23.61	24.36	24.09	24.84	25.31
	6H	23.24	23.86	23.75	24.36	24.85	23.98	24.60	24.49	25.10	25.59
	8H	23.41	23.96	23.92	24.45	25.01	24.12	24.67	24.63	25.16	25.72