

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: P1191417

Luminaire Tested: SQ2-FA-125D-L935-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191417
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-125D-L935-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

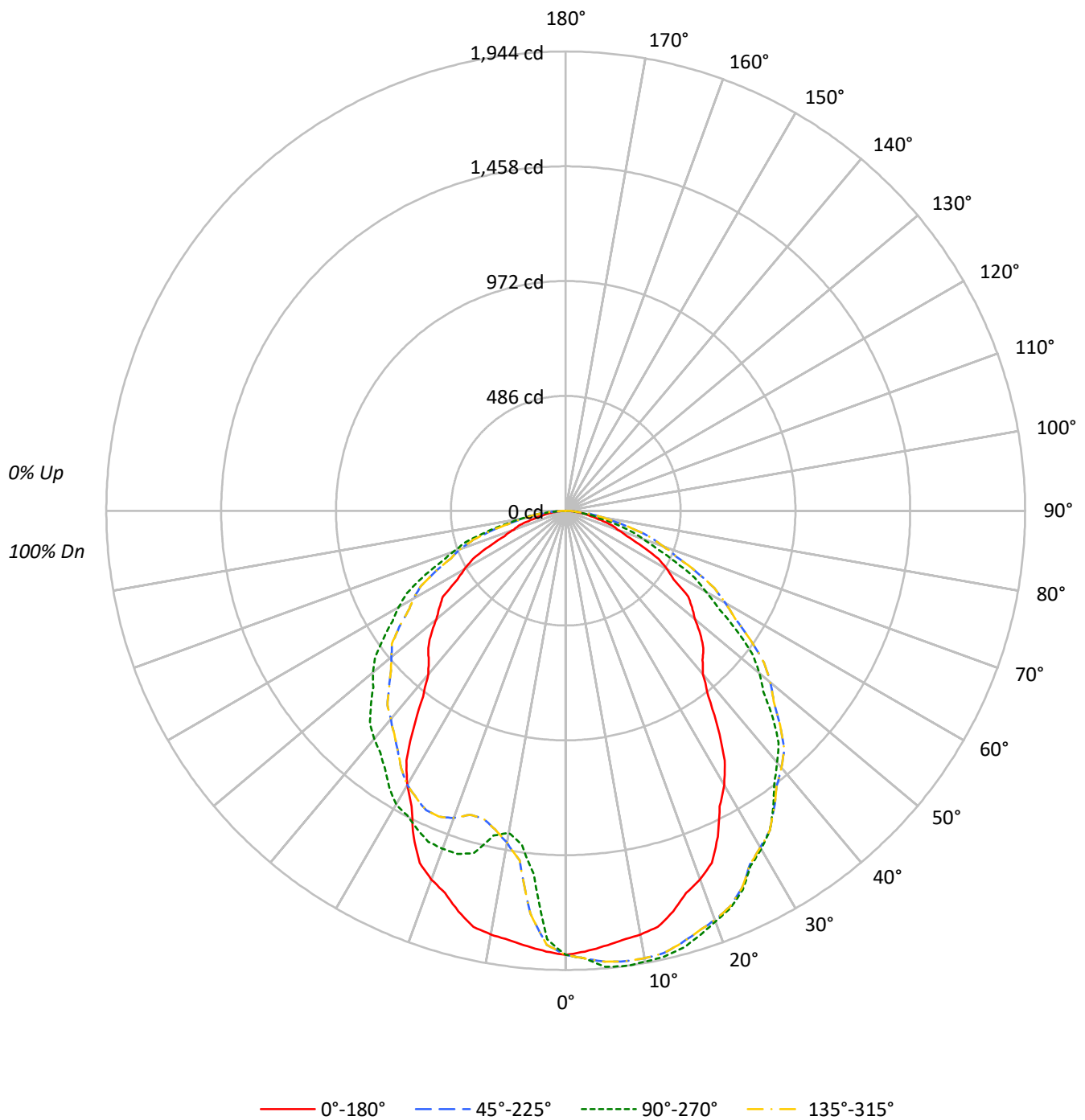
Lumens per Lamp: N/A
Luminaire Lumens: 4668.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.2
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°	30353	30353	30353	30353
5°	29997	31413	29997	25036
10°	29865	31777	29865	22697
15°	29352	32032	29352	25090
20°	28545	31801	28545	26167
25°	27130	31543	27130	26480
30°	24995	30837	24995	26761
35°	22117	30161	22117	26282
40°	19043	29333	19043	26570
45°	18801	28284	18801	26619
50°	17937	26904	17937	26721
55°	17844	24819	17844	26460
60°	16001	22117	16001	26353
65°	13639	19488	13639	25612
70°	11009	16513	11009	23736
75°	9545	13637	9545	21821
80°	8126	10163	8126	17610
85°	5391	5391	5391	10800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 29282 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	3.6
10°-20°	472.6	10.1
20°-30°	717.8	15.4
30°-40°	842.6	18.0
40°-50°	855.1	18.3
50°-60°	749.1	16.0
60°-70°	531.4	11.4
70°-80°	273.6	5.9
80°-90°	57.4	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°	1359.6	29.1
0°-40°	2202.2	47.2
0°-60°	3806.4	81.5
0°-90°	4668.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1880	1880	1880	1880	1880	
5°	1851	1938	1851	1545	1851	176
15°	1756	1916	1756	1501	1756	493
25°	1523	1771	1523	1486	1523	695
35°	1122	1530	1122	1333	1122	699
45°	823	1239	823	1166	823	630
55°	634	882	634	940	634	548
65°	357	510	357	670	357	357
75°	153	219	153	350	153	165
85°	29	29	29	58	29	37
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°	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9
2.5°	1868.2	1896.7	1897.4	1897.4	1897.4	1897.4	1897.4	1896.7	1868.2	1868.2	1839.1
5°	1850.8	1900.6	1916.3	1923.9	1923.9	1923.9	1916.3	1900.6	1850.8	1829.4	1712.3
7.5°	1833.3	1900.2	1923.6	1936.9	1944.0	1936.9	1923.6	1900.2	1833.3	1737.8	1492.3
10°	1821.6	1900.0	1923.6	1931.1	1938.2	1931.1	1923.6	1900.0	1821.6	1629.3	1428.1
12.5°	1804.1	1888.2	1917.8	1925.2	1932.4	1925.2	1917.8	1888.2	1804.1	1532.0	1381.5
15°	1756.0	1870.0	1894.5	1909.2	1916.3	1909.2	1894.5	1870.0	1756.0	1449.7	1348.0
17.5°	1696.3	1834.5	1866.8	1880.0	1885.7	1880.0	1866.8	1834.5	1696.3	1375.7	1349.5
20°	1661.3	1810.9	1843.5	1850.8	1850.8	1850.8	1843.5	1810.9	1661.3	1340.7	1384.4
22.5°	1614.7	1781.4	1814.3	1815.9	1821.6	1815.9	1814.3	1781.4	1614.7	1299.8	1401.9
25°	1522.9	1715.2	1763.3	1756.4	1770.6	1756.4	1763.3	1715.2	1522.9	1245.0	1399.0
27.5°	1410.7	1652.9	1687.5	1694.8	1694.8	1694.8	1687.5	1652.9	1410.7	1191.2	1369.9
30°	1340.7	1611.4	1646.7	1654.0	1654.0	1654.0	1646.7	1611.4	1340.7	1155.5	1340.7
32.5°	1253.3	1575.3	1605.9	1607.4	1607.4	1607.4	1605.9	1575.3	1253.3	1119.3	1294.1
35°	1122.1	1514.0	1537.4	1537.3	1530.2	1537.3	1537.4	1514.0	1122.1	1065.1	1238.7
37.5°	991.0	1435.5	1467.5	1457.1	1450.0	1457.1	1467.5	1435.5	991.0	1009.5	1192.1
40°	903.5	1388.0	1420.9	1398.8	1391.7	1398.8	1420.9	1388.0	903.5	967.6	1151.3
42.5°	856.9	1335.7	1368.4	1340.5	1333.4	1340.5	1368.4	1335.7	856.9	926.7	1116.3
45°	823.4	1250.8	1282.4	1252.9	1238.7	1252.9	1282.4	1250.8	823.4	866.1	1056.5
47.5°	772.4	1148.5	1193.5	1149.5	1135.2	1149.5	1193.5	1148.5	772.4	803.7	1002.6
50°	714.1	1084.5	1129.4	1085.4	1071.1	1085.4	1129.4	1084.5	714.1	756.8	961.8
52.5°	673.3	1020.9	1059.5	1009.6	995.3	1009.6	1059.5	1020.9	673.3	698.9	926.8
55°	633.9	926.0	954.5	903.0	881.7	903.0	954.5	926.0	633.9	612.5	859.8
57.5°	542.1	820.0	849.6	790.8	766.5	790.8	849.6	820.0	542.1	523.6	789.9
60°	495.5	744.8	779.7	720.5	684.9	720.5	779.7	744.8	495.5	459.9	743.2
62.5°	443.0	663.9	709.7	650.6	615.0	650.6	709.7	663.9	443.0	418.8	690.8
65°	357.0	549.4	604.8	545.7	510.1	545.7	604.8	549.4	357.0	371.3	604.8
67.5°	279.8	445.1	507.1	442.4	413.9	442.4	507.1	445.1	279.8	326.8	526.1
70°	233.2	375.7	437.2	378.2	349.8	378.2	437.2	375.7	233.2	297.3	473.6
72.5°	204.0	312.3	378.9	314.3	291.5	314.3	378.9	312.3	204.0	268.1	409.5
75°	153.0	217.1	291.5	232.8	218.6	232.8	291.5	217.1	153.0	217.1	320.6
77.5°	110.8	140.7	205.5	155.8	150.1	155.8	205.5	140.7	110.8	163.5	233.2
80°	87.4	94.6	153.0	109.3	109.3	109.3	153.0	94.6	87.4	123.1	174.9
82.5°	58.3	65.4	106.4	74.2	68.5	74.2	106.4	65.4	58.3	88.2	122.4
85°	29.1	29.1	43.7	29.1	29.1	29.1	43.7	29.1	29.1	43.4	58.3
87.5°	5.8	5.8	11.7	5.8	5.8	5.8	11.7	5.8	5.8	11.5	11.7
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°	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9
2.5°	1821.5	1815.8	1821.5	1839.1	1868.2	1868.2
5°	1580.4	1544.7	1580.4	1712.3	1829.4	1850.8
7.5°	1436.6	1425.2	1436.6	1492.3	1737.8	1833.3
10°	1384.4	1384.4	1384.4	1428.1	1629.3	1821.6
12.5°	1379.2	1407.7	1379.2	1381.5	1532.0	1804.1
15°	1465.4	1501.0	1465.4	1348.0	1449.7	1756.0
17.5°	1494.4	1522.9	1494.4	1349.5	1375.7	1696.3
20°	1494.4	1522.9	1494.4	1384.4	1340.7	1661.3
22.5°	1488.5	1517.0	1488.5	1401.9	1299.8	1614.7
25°	1472.2	1486.4	1472.2	1399.0	1245.0	1522.9
27.5°	1442.9	1452.9	1442.9	1369.9	1191.2	1410.7
30°	1414.1	1435.4	1414.1	1340.7	1155.5	1340.7
32.5°	1384.5	1388.8	1384.5	1294.1	1119.3	1253.3
35°	1340.5	1333.4	1340.5	1238.7	1065.1	1122.1
37.5°	1281.2	1289.7	1281.2	1192.1	1009.5	991.0
40°	1246.3	1260.6	1246.3	1151.3	967.6	903.5
42.5°	1211.3	1225.6	1211.3	1116.3	926.7	856.9
45°	1158.7	1165.8	1158.7	1056.5	866.1	823.4
47.5°	1097.5	1104.6	1097.5	1002.6	803.7	772.4
50°	1056.7	1063.8	1056.7	961.8	756.8	714.1
52.5°	1010.1	1017.2	1010.1	926.8	698.9	673.3
55°	940.0	940.0	940.0	859.8	612.5	633.9
57.5°	860.0	868.5	860.0	789.9	523.6	542.1
60°	801.8	816.1	801.8	743.2	459.9	495.5
62.5°	749.2	757.8	749.2	690.8	418.8	443.0
65°	663.2	670.4	663.2	604.8	371.3	357.0
67.5°	567.0	572.7	567.0	526.1	326.8	279.8
70°	502.8	502.8	502.8	473.6	297.3	233.2
72.5°	438.8	444.5	438.8	409.5	268.1	204.0
75°	342.6	349.8	342.6	320.6	217.1	153.0
77.5°	246.4	253.6	246.4	233.2	163.5	110.8
80°	182.3	189.4	182.3	174.9	123.1	87.4
82.5°	129.7	131.2	129.7	122.4	88.2	58.3
85°	58.3	58.3	58.3	58.3	43.4	29.1
87.5°	11.7	11.7	11.7	11.7	11.5	5.8
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	22.04	23.64	22.40	23.96	24.27	23.26	24.87	23.63	25.18	25.50
	3H	23.18	24.63	23.56	24.95	25.31	24.56	26.00	24.93	26.33	26.69
	4H	23.56	24.93	23.96	25.27	25.65	24.98	26.34	25.38	26.69	27.07
	6H	23.76	25.02	24.17	25.39	25.78	25.18	26.44	25.59	26.80	27.19
	8H	23.82	25.02	24.24	25.41	25.81	25.22	26.42	25.65	26.81	27.21
	12H	23.84	24.99	24.27	25.37	25.80	25.23	26.38	25.66	26.76	27.19
4H	2H	23.05	24.41	23.45	24.76	25.14	23.96	25.32	24.36	25.67	26.05
	3H	24.48	25.62	24.89	26.02	26.42	25.48	26.61	25.89	27.01	27.41
	4H	24.96	25.98	25.39	26.40	26.83	25.97	27.00	26.41	27.41	27.85
	6H	25.23	26.12	25.68	26.56	27.02	26.24	27.13	26.69	27.57	28.03
	8H	25.30	26.14	25.76	26.58	27.04	26.30	27.14	26.76	27.58	28.05
	12H	25.34	26.09	25.82	26.56	27.03	26.33	27.07	26.81	27.55	28.02
8H	4H	25.42	26.25	25.88	26.69	27.16	26.24	27.08	26.70	27.52	27.99
	6H	25.79	26.48	26.29	26.97	27.45	26.58	27.27	27.08	27.76	28.24
	8H	25.91	26.53	26.42	27.04	27.53	26.68	27.30	27.19	27.81	28.30
	12H	25.98	26.53	26.49	27.02	27.58	26.73	27.28	27.24	27.77	28.33
12H	4H	25.45	26.20	25.93	26.68	27.15	26.25	26.99	26.73	27.47	27.94
	6H	25.87	26.49	26.38	27.00	27.48	26.61	27.23	27.12	27.74	28.22
	8H	26.05	26.60	26.56	27.09	27.65	26.76	27.30	27.26	27.79	28.36