

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: P936599

Luminaire Tested: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936599
REPORT IS A COMBINATION OF REPORTS P933448 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

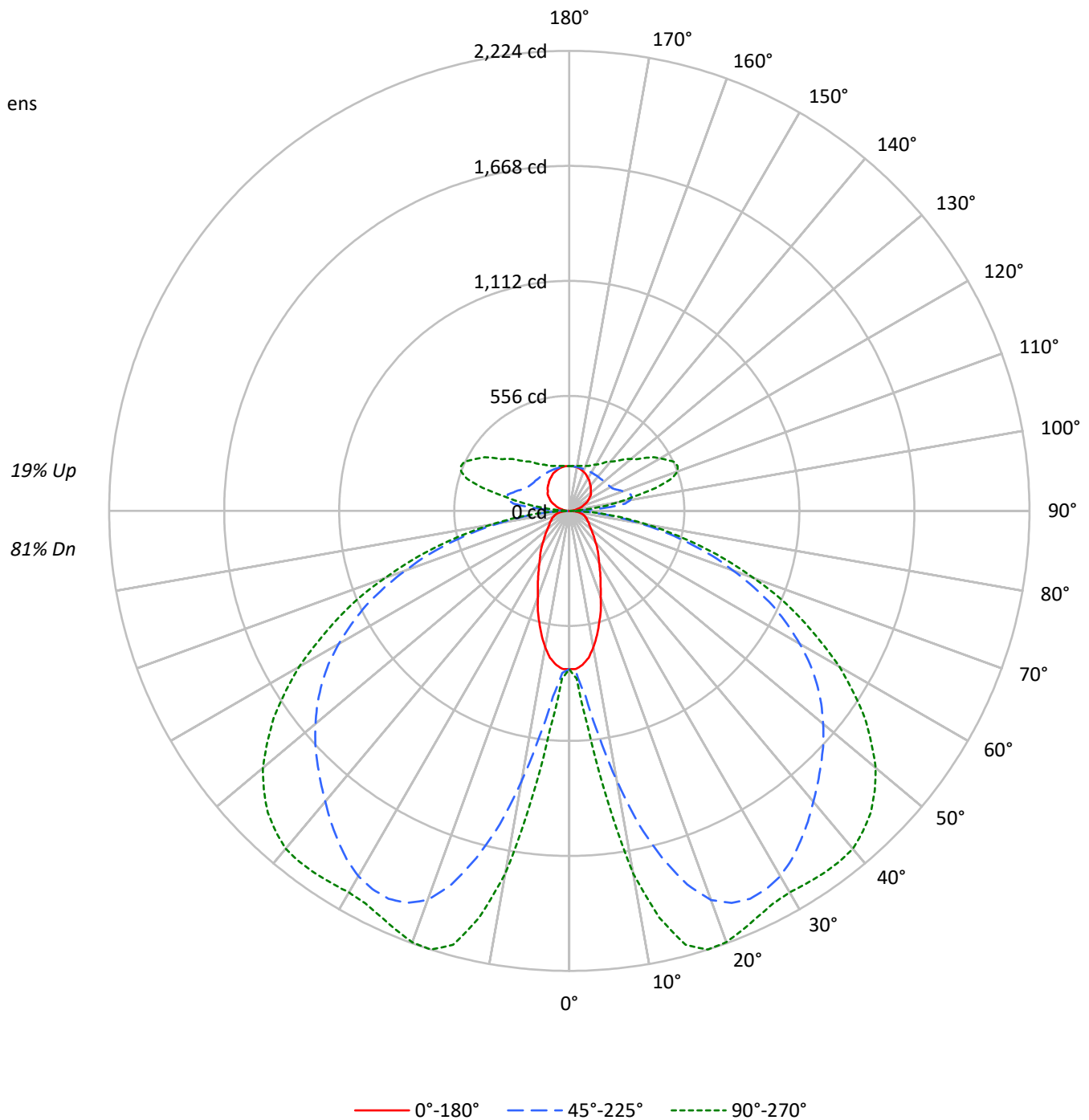
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7324.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P936599
CATALOG NUMBER: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.4
10°-20°	438.5	6.0
20°-30°	767.1	10.5
30°-40°	987.5	13.5
40°-50°	1103.0	15.1
50°-60°	1056.4	14.4
60°-70°	837.2	11.4
70°-80°	492.3	6.7
80°-90°	137.6	1.9
90°-100°	105.7	1.4
100°-110°	278.0	3.8
110°-120°	288.2	3.9
120°-130°	231.2	3.2
130°-140°	181.4	2.5
140°-150°	139.2	1.9
150°-160°	100.3	1.4
160°-170°	61.4	0.8
170°-180°	20.7	0.3
0°-30°	1304.6	17.8
0°-40°	2292.1	31.3
0°-60°	4451.4	60.8
0°-90°	5918.5	80.8
90°-120°	671.9	9.2
90°-150°	1223.8	16.7
90°-180°	1406.0	19.2
0°-180°	7324.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	745	799	900	1018	1055	69
15°	558	1031	1736	2105	2172	155
25°	357	1168	2069	2160	2162	164
35°	241	1117	1948	2059	2140	151
45°	165	890	1722	1973	2061	127
55°	118	566	1461	1697	1744	108
65°	94	300	1085	1220	1237	93
75°	69	184	595	654	657	72
85°	25	57	148	162	165	26
90°	2	4	11	6	6	3
95°	14	55	182	94	64	16
105°	50	76	307	467	435	53
115°	89	108	246	491	560	88
125°	124	139	224	378	446	110
135°	148	162	217	305	346	114
145°	171	182	214	261	281	107
155°	193	199	214	235	242	89
165°	209	211	214	223	225	59
175°	217	217	216	218	218	21
180°	217	217	217	217	217	



TEST NUMBER: P936599
 CATALOG NUMBER: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9
2.5°	764.9	764.9	769.9	772.3	777.2	779.8	784.6	789.5	804.3	806.8	811.7
5°	745.3	755.1	787.1	799.4	833.8	880.5	900.2	932.2	998.7	1018.3	1030.6
7.5°	715.8	737.9	816.6	836.2	922.4	1045.4	1097.0	1165.9	1271.6	1323.3	1365.1
10°	669.0	715.8	855.9	902.7	1042.9	1229.9	1325.8	1421.7	1581.6	1652.9	1680.0
12.5°	617.3	693.6	897.8	961.7	1163.4	1436.4	1552.0	1657.8	1839.8	1935.8	1950.5
15°	558.3	661.6	937.1	1030.6	1291.3	1608.6	1736.5	1866.9	2036.6	2105.4	2122.7
17.5°	506.7	637.0	974.0	1072.4	1389.7	1763.6	1893.9	2002.1	2139.9	2186.6	2199.0
20°	442.7	597.7	998.7	1126.6	1493.0	1876.8	2002.1	2085.8	2179.3	2208.7	2213.7
22.5°	396.0	555.9	1013.4	1146.2	1561.9	1945.6	2051.4	2117.7	2181.7	2191.6	2194.0
25°	356.7	509.1	1011.0	1168.3	1620.9	1987.4	2068.6	2117.7	2154.7	2159.6	2159.6
27.5°	319.8	457.5	1001.1	1173.3	1665.2	1997.2	2061.2	2095.7	2112.8	2122.7	2122.7
30°	287.8	408.3	976.5	1163.4	1684.9	1987.4	2039.1	2056.3	2073.5	2088.3	2095.7
32.5°	263.2	361.5	939.5	1143.7	1687.3	1962.8	1999.7	2009.5	2034.1	2068.6	2080.8
35°	241.1	314.8	897.8	1116.7	1672.6	1923.5	1948.1	1957.9	2007.1	2058.7	2076.0
37.5°	218.9	280.4	843.7	1070.0	1650.4	1876.8	1893.9	1911.2	1987.4	2048.9	2068.6
40°	196.8	250.9	779.8	1018.3	1616.0	1820.2	1834.9	1861.9	1962.8	2034.1	2053.8
42.5°	179.6	226.3	710.9	964.2	1571.7	1756.2	1778.3	1817.7	1933.3	2009.5	2031.7
45°	164.8	201.6	637.0	890.4	1515.1	1689.7	1721.7	1775.9	1898.9	1972.7	1992.4
47.5°	150.0	184.5	560.8	814.2	1453.7	1623.4	1665.2	1726.7	1852.1	1923.5	1940.7
50°	137.7	167.2	484.6	733.0	1387.2	1552.0	1601.3	1665.2	1793.1	1859.5	1881.6
52.5°	127.9	152.5	413.2	651.8	1311.0	1478.2	1534.8	1601.3	1721.7	1785.7	1800.5
55°	118.0	140.2	351.7	565.7	1232.3	1399.5	1461.1	1525.0	1643.0	1697.2	1707.0
57.5°	113.2	130.3	300.1	484.6	1148.7	1311.0	1379.9	1438.9	1549.6	1591.4	1601.3
60°	105.7	123.0	260.8	415.7	1057.7	1227.3	1286.4	1345.5	1438.9	1473.4	1480.7
62.5°	98.4	118.0	231.2	349.2	964.2	1129.0	1188.0	1242.2	1320.8	1345.5	1355.2
65°	93.5	113.2	209.1	300.1	868.2	1025.7	1084.7	1131.4	1195.4	1220.0	1224.9
67.5°	88.6	108.2	191.9	258.2	772.3	922.4	966.7	1011.0	1060.1	1084.7	1087.2
70°	81.2	103.3	177.1	228.8	673.9	804.3	841.2	887.9	927.3	939.5	947.0
72.5°	76.3	95.9	167.2	206.6	573.1	691.2	725.6	752.6	787.1	799.4	799.4
75°	68.9	86.0	157.5	184.5	469.8	565.7	595.3	622.3	649.3	654.3	646.9
77.5°	61.5	76.3	135.3	154.9	366.5	447.7	472.3	487.0	509.1	514.1	516.6
80°	51.6	66.4	105.7	120.5	265.6	329.6	346.8	359.1	378.8	378.8	383.7
82.5°	39.3	51.6	76.3	86.0	179.6	226.3	241.1	248.5	260.8	260.8	260.8
85°	24.6	32.0	49.2	56.6	108.2	137.7	147.6	150.0	159.9	162.3	162.3
87.5°	12.3	17.2	32.0	34.4	56.6	71.3	71.3	76.3	76.3	73.8	71.3
90°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2



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CATALOG NUMBER: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0



TEST NUMBER: P936599

CATALOG NUMBER: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	764.9	764.9
2.5°	816.6	811.7
5°	1050.3	1055.2
7.5°	1414.4	1411.8
10°	1758.6	1780.8
12.5°	2009.5	2014.5
15°	2162.0	2171.9
17.5°	2221.0	2223.6
20°	2223.6	2218.6
22.5°	2196.4	2191.6
25°	2164.5	2162.0
27.5°	2135.0	2137.4
30°	2122.7	2130.1
32.5°	2122.7	2135.0
35°	2127.6	2139.9
37.5°	2125.1	2139.9
40°	2115.3	2132.5
42.5°	2088.3	2100.6
45°	2046.4	2061.2
47.5°	1992.4	2002.1
50°	1923.5	1933.3
52.5°	1837.3	1839.8
55°	1734.0	1743.9
57.5°	1623.4	1625.8
60°	1500.4	1507.8
62.5°	1370.1	1370.1
65°	1232.3	1237.2
67.5°	1089.6	1101.9
70°	944.5	947.0
72.5°	801.8	801.8
75°	654.3	656.7
77.5°	514.1	514.1
80°	381.2	383.7
82.5°	263.2	268.1
85°	164.8	164.8
87.5°	76.3	68.9
90°	5.5	5.5
92.5°	22.1	17.7
95°	77.2	64.0
97.5°	185.1	159.7
100°	266.7	236.4
102.5°	346.9	321.0
105°	449.2	435.3
107.5°	516.2	519.6
110°	541.8	556.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	544.0	566.3
115°	529.6	560.5
117.5°	499.0	533.2
120°	474.4	507.7
122.5°	450.4	483.1
125°	416.1	446.3
127.5°	385.4	410.9
130°	367.2	390.7
132.5°	350.7	371.8
135°	328.1	346.3
137.5°	310.1	324.9
140°	297.6	311.5
142.5°	287.3	299.3
145°	271.9	281.0
147.5°	260.1	267.5
150°	252.6	258.7
152.5°	246.2	250.9
155°	238.9	242.0
157.5°	233.1	235.3
160°	229.7	230.9
162.5°	227.4	228.6
165°	224.1	225.4
167.5°	221.8	222.3
170°	221.1	221.1
172.5°	219.4	219.0
175°	218.4	218.4
177.5°	217.4	217.0
180°	217.0	217.0



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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	8.83	10.13	9.46	10.78	11.53	21.99	23.29	22.62	23.94	24.69
	3H	9.56	10.74	10.21	11.40	12.18	23.86	25.03	24.50	25.69	26.48
	4H	9.88	10.99	10.54	11.67	12.46	24.52	25.63	25.18	26.30	27.10
	6H	10.15	11.18	10.83	11.87	12.68	24.97	26.00	25.64	26.68	27.49
	8H	10.23	11.22	10.92	11.92	12.74	25.10	26.08	25.79	26.79	27.60
	12H	10.27	11.21	10.96	11.91	12.75	25.18	26.12	25.87	26.82	27.66
4H	2H	16.08	17.20	16.75	17.87	18.66	22.32	23.43	22.98	24.10	24.90
	3H	17.69	18.63	18.37	19.34	20.15	24.40	25.33	25.08	26.04	26.86
	4H	17.80	18.66	18.50	19.37	20.21	25.18	26.03	25.88	26.74	27.59
	6H	17.84	18.58	18.56	19.32	20.17	25.74	26.48	26.46	27.22	28.07
	8H	17.83	18.52	18.55	19.26	20.13	25.91	26.61	26.63	27.34	28.21
	12H	17.81	18.44	18.55	19.20	20.07	26.02	26.65	26.77	27.41	28.28
8H	4H	19.28	19.98	20.01	20.71	21.58	25.28	25.97	26.00	26.71	27.57
	6H	19.55	20.12	20.30	20.90	21.77	25.92	26.50	26.67	27.28	28.15
	8H	19.57	20.09	20.34	20.87	21.75	26.15	26.66	26.91	27.44	28.32
	12H	19.56	20.02	20.33	20.79	21.73	26.31	26.76	27.08	27.53	28.48
12H	4H	19.45	20.07	20.19	20.83	21.71	25.25	25.88	25.99	26.64	27.51
	6H	19.81	20.33	20.57	21.11	21.99	25.91	26.43	26.68	27.21	28.09
	8H	19.90	20.36	20.67	21.13	22.07	26.16	26.62	26.93	27.39	28.33