

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: P937751

Luminaire Tested: SQ4-FB-100U-125D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937751
REPORT IS A COMBINATION OF REPORTS P933576 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

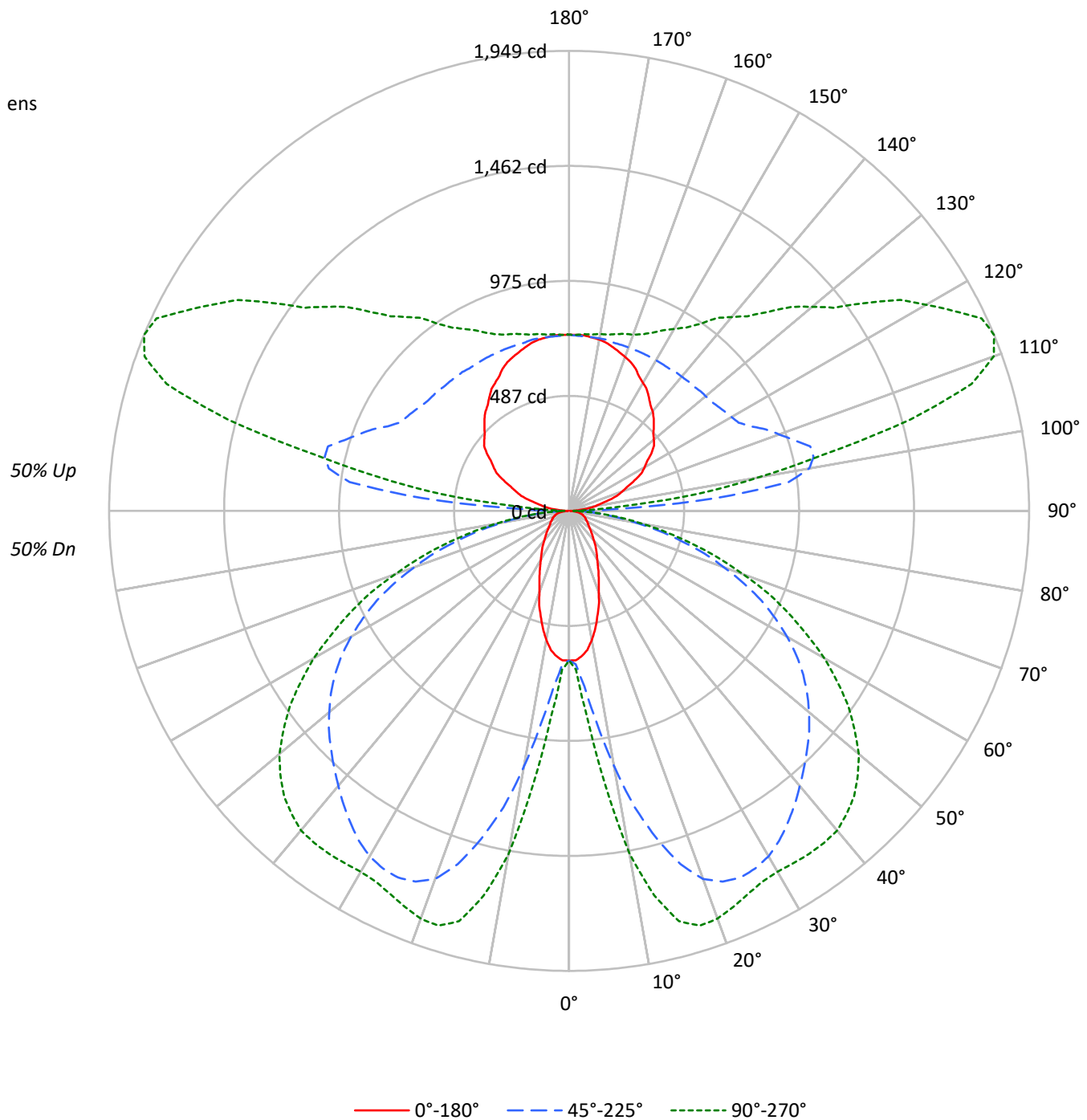
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9746.1 lumens
Efficiency: N/A
Efficacy: 94.4 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: General Diffuse

Input Watts (W): 103.2
Input Voltage (V): NR
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	0.8
10°-20°	363.4	3.7
20°-30°	635.7	6.5
30°-40°	818.3	8.4
40°-50°	914.0	9.4
50°-60°	875.4	9.0
60°-70°	693.8	7.1
70°-80°	408.0	4.2
80°-90°	116.2	1.2
90°-100°	363.9	3.7
100°-110°	956.7	9.8
110°-120°	991.9	10.2
120°-130°	795.7	8.2
130°-140°	624.3	6.4
140°-150°	479.2	4.9
150°-160°	345.1	3.5
160°-170°	211.1	2.2
170°-180°	71.3	0.7
0°-30°	1081.1	11.1
0°-40°	1899.4	19.5
0°-60°	3688.9	37.9
0°-90°	4906.9	50.3
90°-120°	2312.5	23.7
90°-150°	4211.7	43.2
90°-180°	4839.0	49.7
0°-180°	9746.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	618	662	746	844	874	57
15°	463	854	1439	1745	1800	129
25°	296	968	1714	1790	1792	136
35°	200	925	1614	1706	1773	125
45°	137	738	1427	1635	1708	106
55°	98	469	1211	1406	1445	89
65°	78	249	899	1011	1025	77
75°	57	153	493	542	544	60
85°	20	47	122	134	137	22
90°	5	14	38	19	19	6
95°	48	188	627	323	220	53
105°	172	261	1058	1606	1498	183
115°	306	372	847	1690	1929	302
125°	426	478	771	1302	1536	378
135°	508	559	746	1051	1192	393
145°	589	626	737	897	967	369
155°	665	684	737	809	833	306
165°	718	727	737	766	776	203
175°	746	746	742	752	752	71
180°	746	746	746	746	746	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
2.5°	633.9	633.9	638.0	640.0	644.1	646.2	650.2	654.3	666.5	668.6	672.7
5°	617.6	625.8	652.3	662.5	691.0	729.7	746.0	772.5	827.6	843.9	854.1
7.5°	593.2	611.5	676.7	693.0	764.4	866.3	909.1	966.2	1053.8	1096.6	1131.3
10°	554.4	593.2	709.3	748.1	864.3	1019.2	1098.7	1178.2	1310.7	1369.8	1392.2
12.5°	511.6	574.8	744.0	797.0	964.1	1190.4	1286.2	1373.8	1524.7	1604.2	1616.4
15°	462.7	548.3	776.6	854.1	1070.1	1333.1	1439.1	1547.1	1687.7	1744.8	1759.1
17.5°	419.9	527.9	807.2	888.7	1151.7	1461.5	1569.5	1659.2	1773.3	1812.0	1822.2
20°	366.9	495.3	827.6	933.6	1237.3	1555.3	1659.2	1728.5	1805.9	1830.4	1834.5
22.5°	328.2	460.7	839.8	949.9	1294.4	1612.3	1700.0	1755.0	1808.0	1816.1	1818.2
25°	295.6	421.9	837.8	968.2	1343.3	1647.0	1714.2	1755.0	1785.6	1789.6	1789.6
27.5°	265.0	379.1	829.6	972.3	1380.0	1655.1	1708.1	1736.6	1750.9	1759.1	1759.1
30°	238.5	338.4	809.2	964.1	1396.3	1647.0	1689.8	1704.0	1718.3	1730.5	1736.6
32.5°	218.1	299.6	778.6	947.8	1398.3	1626.6	1657.2	1665.3	1685.7	1714.2	1724.4
35°	199.8	260.9	744.0	925.4	1386.1	1594.0	1614.4	1622.5	1663.3	1706.1	1720.3
37.5°	181.4	232.4	699.2	886.7	1367.7	1555.3	1569.5	1583.8	1647.0	1697.9	1714.2
40°	163.1	207.9	646.2	843.9	1339.2	1508.4	1520.6	1543.0	1626.6	1685.7	1702.0
42.5°	148.8	187.5	589.1	799.0	1302.5	1455.4	1473.7	1506.3	1602.1	1665.3	1683.7
45°	136.6	167.1	527.9	737.9	1255.6	1400.3	1426.8	1471.7	1573.6	1634.7	1651.0
47.5°	124.3	152.9	464.7	674.7	1204.7	1345.3	1380.0	1430.9	1534.9	1594.0	1608.2
50°	114.1	138.6	401.6	607.4	1149.6	1286.2	1327.0	1380.0	1486.0	1541.0	1559.3
52.5°	106.0	126.4	342.4	540.2	1086.4	1225.0	1271.9	1327.0	1426.8	1479.8	1492.1
55°	97.8	116.2	291.5	468.8	1021.2	1159.8	1210.8	1263.8	1361.6	1406.5	1414.6
57.5°	93.8	108.0	248.7	401.6	951.9	1086.4	1143.5	1192.4	1284.2	1318.8	1327.0
60°	87.6	101.9	216.1	344.5	876.5	1017.1	1066.1	1115.0	1192.4	1221.0	1227.1
62.5°	81.5	97.8	191.6	289.4	799.0	935.6	984.5	1029.4	1094.6	1115.0	1123.1
65°	77.5	93.8	173.3	248.7	719.5	850.0	898.9	937.6	990.6	1011.0	1015.1
67.5°	73.4	89.7	159.0	214.0	640.0	764.4	801.1	837.8	878.5	898.9	901.0
70°	67.3	85.6	146.8	189.6	558.5	666.5	697.1	735.8	768.5	778.6	784.8
72.5°	63.2	79.5	138.6	171.2	474.9	572.8	601.3	623.7	652.3	662.5	662.5
75°	57.1	71.3	130.5	152.9	389.3	468.8	493.3	515.7	538.1	542.2	536.1
77.5°	51.0	63.2	112.1	128.4	303.7	371.0	391.4	403.6	421.9	426.0	428.1
80°	42.8	55.0	87.6	99.9	220.1	273.1	287.4	297.6	313.9	313.9	318.0
82.5°	32.6	42.8	63.2	71.3	148.8	187.5	199.8	205.9	216.1	216.1	216.1
85°	20.4	26.5	40.8	46.9	89.7	114.1	122.3	124.3	132.5	134.5	134.5
87.5°	10.2	14.3	26.5	28.5	46.9	59.1	59.1	63.2	63.2	61.2	59.1
90°	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4	19.0	19.0
92.5°	20.1	54.1	88.2	96.7	135.9	188.2	214.4	187.9	134.9	95.2	91.4
95°	48.1	110.4	172.8	188.4	334.5	529.3	626.7	559.3	424.3	323.1	311.6
97.5°	83.2	138.2	193.2	206.9	450.6	775.5	937.9	895.3	810.0	746.0	724.1
100°	110.3	160.1	210.0	222.4	492.8	853.3	1033.5	1036.7	1042.9	1047.6	1021.6
102.5°	133.3	179.9	226.4	238.0	512.2	877.8	1060.6	1115.0	1223.6	1305.1	1282.9
105°	172.3	211.8	251.2	261.1	526.6	880.7	1057.6	1179.4	1423.0	1605.7	1593.7
107.5°	212.4	249.2	285.9	295.1	529.3	841.4	997.5	1167.4	1507.2	1762.0	1764.9
110°	239.5	272.6	305.9	314.1	525.2	806.7	947.4	1137.3	1517.2	1802.1	1814.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.0	297.7	329.3	337.2	525.4	776.3	901.8	1096.2	1485.0	1776.6	1795.7
115°	306.1	335.3	364.4	371.7	530.2	741.5	847.2	1034.4	1409.0	1689.9	1716.5
117.5°	345.7	372.2	398.7	405.3	540.0	719.7	809.6	978.6	1316.6	1570.1	1599.6
120°	368.7	393.7	418.6	424.9	548.1	712.4	794.6	949.0	1257.8	1489.5	1518.1
122.5°	391.3	416.4	441.6	447.9	559.6	708.6	783.1	922.2	1200.2	1408.8	1437.0
125°	425.8	448.8	471.8	477.5	575.2	705.4	770.6	888.7	1124.9	1302.1	1328.2
127.5°	453.9	477.1	500.3	506.1	590.7	703.6	760.0	861.5	1064.3	1216.5	1238.4
130°	469.0	493.9	518.8	525.1	602.1	704.7	756.0	846.3	1026.9	1162.3	1182.6
132.5°	484.4	509.4	534.3	540.6	611.2	705.4	752.5	833.4	995.0	1116.3	1134.4
135°	507.5	530.2	552.9	558.6	621.3	704.7	746.5	814.2	949.5	1051.1	1066.8
137.5°	531.0	553.5	576.1	581.7	636.3	709.1	745.5	802.8	917.2	1003.0	1015.8
140°	550.6	571.3	592.1	597.2	645.5	709.8	742.0	791.4	890.3	964.4	976.4
142.5°	565.6	584.8	603.9	608.8	653.2	712.3	742.0	785.4	872.2	937.3	947.6
145°	588.7	605.4	622.1	626.3	663.2	712.4	737.0	772.5	843.6	896.8	904.6
147.5°	611.7	627.9	644.2	648.3	677.8	717.2	737.0	764.9	820.8	862.7	869.2
150°	626.7	641.4	656.1	659.8	685.5	719.8	737.0	760.6	807.7	843.2	848.4
152.5°	642.3	653.5	664.6	667.4	690.6	721.5	737.0	757.1	797.5	827.7	831.6
155°	665.4	673.6	681.7	683.8	701.6	725.2	737.0	753.1	785.1	809.1	811.8
157.5°	682.4	690.4	698.4	700.4	712.6	728.9	737.0	749.4	774.4	793.1	795.0
160°	693.9	700.1	706.4	707.9	717.6	730.6	737.0	747.7	769.0	785.1	786.1
162.5°	705.4	710.1	714.8	716.0	722.9	732.3	737.0	746.0	764.1	777.5	778.5
165°	718.0	722.1	726.4	727.4	730.6	734.9	737.0	743.4	756.3	766.1	767.1
167.5°	729.4	731.5	733.5	733.9	736.6	740.2	742.0	746.2	754.7	761.0	761.5
170°	737.0	739.0	741.0	741.5	741.7	741.9	742.0	746.2	754.7	761.0	761.0
172.5°	741.0	741.4	741.9	742.0	742.0	742.0	742.0	745.3	752.0	757.0	756.6
175°	746.5	746.5	746.5	746.5	744.9	742.9	742.0	744.1	748.3	751.5	751.5
177.5°	746.5	746.5	746.5	746.5	745.3	743.8	743.0	744.7	748.0	750.5	750.0
180°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	633.9	633.9
2.5°	676.7	672.7
5°	870.4	874.5
7.5°	1172.1	1170.0
10°	1457.4	1475.8
12.5°	1665.3	1669.4
15°	1791.7	1799.8
17.5°	1840.6	1842.6
20°	1842.6	1838.5
22.5°	1820.2	1816.1
25°	1793.7	1791.7
27.5°	1769.2	1771.3
30°	1759.1	1765.2
32.5°	1759.1	1769.2
35°	1763.1	1773.3
37.5°	1761.1	1773.3
40°	1752.9	1767.2
42.5°	1730.5	1740.7
45°	1695.9	1708.1
47.5°	1651.0	1659.2
50°	1594.0	1602.1
52.5°	1522.6	1524.7
55°	1437.0	1445.2
57.5°	1345.3	1347.3
60°	1243.4	1249.5
62.5°	1135.4	1135.4
65°	1021.2	1025.3
67.5°	903.0	913.2
70°	782.7	784.8
72.5°	664.5	664.5
75°	542.2	544.2
77.5°	426.0	426.0
80°	315.9	318.0
82.5°	218.1	222.2
85°	136.6	136.6
87.5°	63.2	57.1
90°	19.0	19.0
92.5°	76.2	61.1
95°	265.8	219.9
97.5°	636.9	549.6
100°	917.6	813.6
102.5°	1193.7	1104.7
105°	1545.9	1498.0
107.5°	1776.6	1788.1
110°	1864.5	1914.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1872.3	1948.9
115°	1822.6	1928.9
117.5°	1717.4	1835.2
120°	1632.6	1747.0
122.5°	1550.0	1662.9
125°	1432.1	1536.1
127.5°	1326.2	1413.8
130°	1263.7	1344.7
132.5°	1207.0	1279.6
135°	1129.3	1191.9
137.5°	1067.0	1118.3
140°	1024.3	1072.2
142.5°	988.9	1030.1
145°	935.8	967.0
147.5°	895.0	920.9
150°	869.3	890.3
152.5°	847.4	863.2
155°	822.2	832.6
157.5°	802.3	809.6
160°	790.4	794.6
162.5°	782.5	786.5
165°	771.4	775.5
167.5°	763.3	765.0
170°	761.0	761.0
172.5°	755.1	753.5
175°	751.5	751.5
177.5°	748.2	746.5
180°	746.5	746.5



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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	5.78	6.68	6.73	7.65	8.91	18.95	19.85	19.89	20.82	22.08
	3H	6.49	7.30	7.45	8.28	9.56	20.78	21.59	21.74	22.57	23.86
	4H	6.79	7.56	7.76	8.54	9.83	21.43	22.20	22.40	23.18	24.47
	6H	7.04	7.75	8.03	8.74	10.05	21.86	22.57	22.84	23.55	24.86
	8H	7.11	7.79	8.10	8.79	10.10	21.98	22.65	22.96	23.66	24.96
	12H	7.13	7.78	8.13	8.77	10.10	22.04	22.69	23.04	23.68	25.01
4H	2H	12.99	13.76	13.97	14.74	16.04	19.23	19.99	20.20	20.98	22.27
	3H	14.56	15.21	15.55	16.22	17.53	21.27	21.91	22.26	22.92	24.23
	4H	14.66	15.25	15.66	16.25	17.59	22.04	22.63	23.03	23.63	24.96
	6H	14.67	15.18	15.68	16.21	17.54	22.57	23.08	23.58	24.11	25.44
	8H	14.65	15.13	15.66	16.15	17.49	22.73	23.21	23.74	24.23	25.57
	12H	14.61	15.04	15.64	16.08	17.43	22.83	23.26	23.86	24.29	25.64
8H	4H	16.11	16.58	17.12	17.60	18.95	22.10	22.58	23.11	23.60	24.94
	6H	16.35	16.75	17.38	17.81	19.15	22.73	23.12	23.76	24.18	25.52
	8H	16.37	16.72	17.41	17.76	19.13	22.94	23.29	23.99	24.34	25.70
	12H	16.34	16.65	17.39	17.69	19.09	23.09	23.39	24.13	24.44	25.84
12H	4H	16.25	16.68	17.28	17.72	19.07	22.05	22.49	23.08	23.52	24.87
	6H	16.61	16.96	17.65	18.00	19.37	22.71	23.06	23.75	24.11	25.47
	8H	16.68	16.99	17.73	18.03	19.43	22.94	23.25	23.99	24.29	25.69