

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: P936441

Luminaire Tested: SQ4-FB-025U-100D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936441
REPORT IS A COMBINATION OF REPORTS P933447 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-100D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

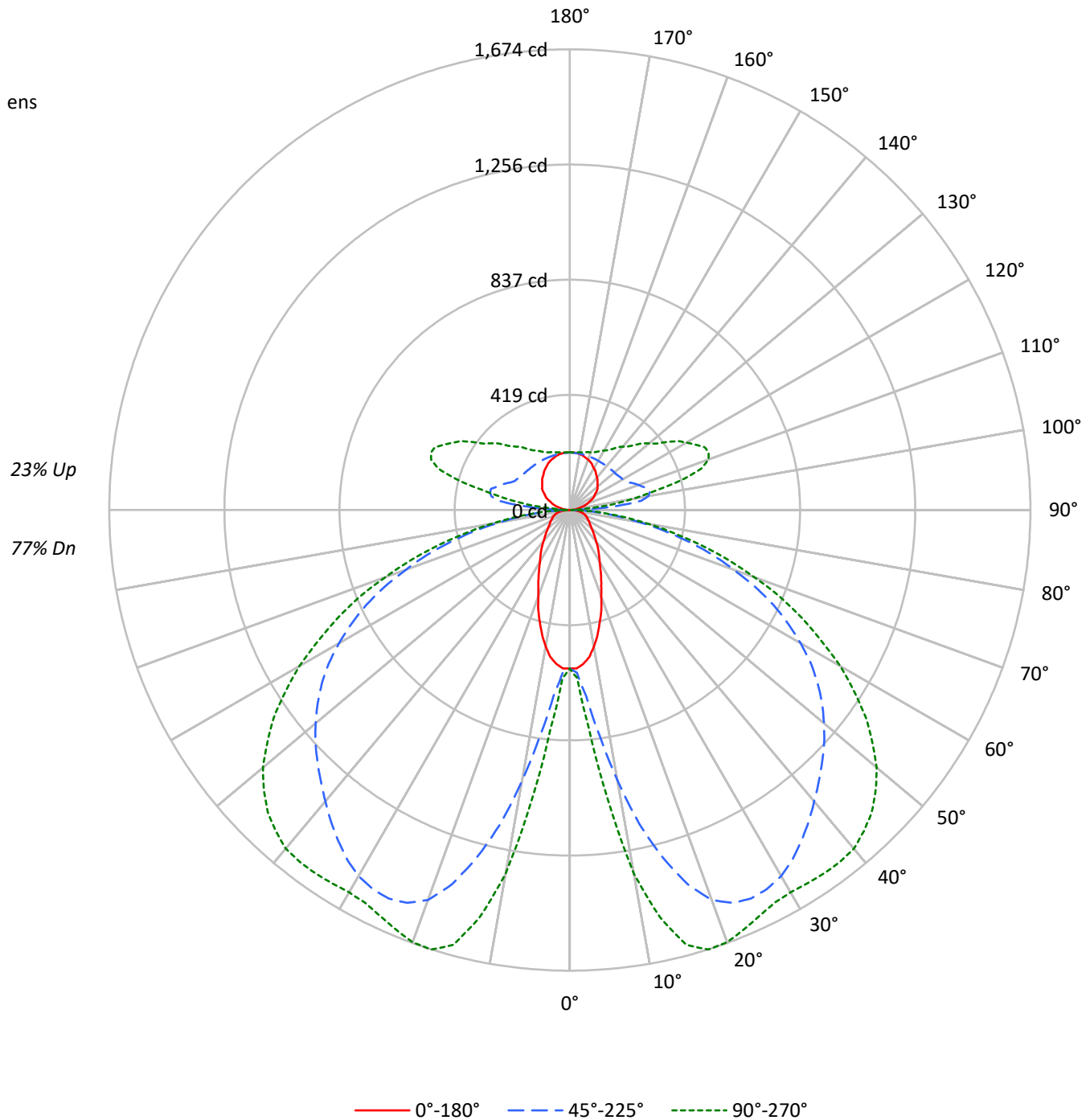
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5813.8 lumens
Efficiency: N/A
Efficacy: 99.9 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): 58.2
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: P936441
CATALOG NUMBER: SQ4-FB-025U-100D-92765-1D-UNV-STD-W-6-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P936441

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.3
10°-20°	330.3	5.7
20°-30°	577.7	9.9
30°-40°	743.7	12.8
40°-50°	830.7	14.3
50°-60°	795.6	13.7
60°-70°	630.5	10.8
70°-80°	370.8	6.4
80°-90°	103.8	1.8
90°-100°	102.0	1.8
100°-110°	268.1	4.6
110°-120°	278.0	4.8
120°-130°	223.0	3.8
130°-140°	175.0	3.0
140°-150°	134.3	2.3
150°-160°	96.7	1.7
160°-170°	59.2	1.0
170°-180°	20.0	0.3
0°-30°	982.5	16.9
0°-40°	1726.2	29.7
0°-60°	3352.4	57.7
0°-90°	4457.5	76.7
90°-120°	648.1	11.1
90°-150°	1180.5	20.3
90°-180°	1356.0	23.3
0°-180°	5813.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	561	602	678	767	795	52
15°	420	776	1308	1586	1636	117
25°	269	880	1558	1626	1628	124
35°	182	841	1467	1550	1612	113
45°	124	671	1297	1486	1552	96
55°	89	426	1100	1278	1313	81
65°	70	226	817	919	932	70
75°	52	139	448	493	495	54
85°	18	43	111	122	124	20
90°	1	4	11	5	5	2
95°	14	53	176	91	62	15
105°	48	73	296	450	420	51
115°	86	104	237	474	541	85
125°	119	134	216	365	430	106
135°	142	157	209	295	334	110
145°	165	176	207	251	271	103
155°	186	192	207	227	233	86
165°	201	204	207	215	217	57
175°	209	209	208	211	211	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1	576.1
2.5°	576.1	576.1	579.8	581.7	585.3	587.2	590.9	594.7	605.7	607.6	611.3
5°	561.3	568.7	592.8	602.0	627.9	663.2	677.9	702.1	752.1	766.9	776.2
7.5°	539.0	555.7	615.0	629.8	694.7	787.3	826.2	878.1	957.7	996.6	1028.1
10°	503.8	539.0	644.7	679.8	785.4	926.2	998.5	1070.7	1191.1	1244.8	1265.2
12.5°	464.9	522.4	676.2	724.3	876.2	1081.8	1168.8	1248.5	1385.6	1457.9	1469.0
15°	420.5	498.3	705.8	776.2	972.5	1211.5	1307.8	1406.0	1533.8	1585.6	1598.6
17.5°	381.6	479.8	733.6	807.7	1046.6	1328.2	1426.4	1507.9	1611.6	1646.8	1656.0
20°	333.4	450.2	752.1	848.4	1124.5	1413.4	1507.9	1570.9	1641.3	1663.5	1667.1
22.5°	298.3	418.7	763.2	863.2	1176.2	1465.2	1544.9	1594.9	1643.1	1650.5	1652.4
25°	268.6	383.4	761.3	879.9	1220.7	1496.7	1557.9	1594.9	1622.7	1626.4	1626.4
27.5°	240.8	344.5	753.9	883.6	1254.1	1504.1	1552.3	1578.3	1591.2	1598.6	1598.6
30°	216.8	307.5	735.4	876.2	1268.9	1496.7	1535.6	1548.6	1561.6	1572.6	1578.3
32.5°	198.3	272.3	707.6	861.3	1270.7	1478.2	1506.0	1513.4	1531.9	1557.9	1567.1
35°	181.5	237.1	676.2	841.0	1259.6	1448.6	1467.1	1474.5	1511.5	1550.5	1563.4
37.5°	164.9	211.2	635.4	805.8	1243.0	1413.4	1426.4	1439.4	1496.7	1543.0	1557.9
40°	148.2	188.9	587.2	766.9	1217.0	1370.7	1381.9	1402.2	1478.2	1531.9	1546.8
42.5°	135.3	170.4	535.3	726.2	1183.7	1322.6	1339.2	1368.9	1456.0	1513.4	1530.1
45°	124.1	151.9	479.8	670.6	1141.1	1272.6	1296.7	1337.5	1430.0	1485.6	1500.5
47.5°	113.0	138.9	422.4	613.2	1094.7	1222.6	1254.1	1300.4	1394.9	1448.6	1461.5
50°	103.8	126.0	364.9	552.0	1044.7	1168.8	1206.0	1254.1	1350.4	1400.4	1417.1
52.5°	96.4	114.9	311.2	490.9	987.3	1113.3	1155.9	1206.0	1296.7	1344.9	1356.0
55°	88.9	105.6	264.9	426.0	928.1	1054.0	1100.3	1148.5	1237.4	1278.1	1285.6
57.5°	85.2	98.1	226.0	364.9	865.1	987.3	1039.2	1083.7	1167.0	1198.5	1206.0
60°	79.6	92.6	196.4	313.0	796.6	924.3	968.8	1013.2	1083.7	1109.6	1115.1
62.5°	74.1	88.9	174.1	263.0	726.2	850.2	894.7	935.5	994.7	1013.2	1020.7
65°	70.4	85.2	157.5	226.0	653.9	772.4	816.9	852.1	900.3	918.8	922.5
67.5°	66.6	81.5	144.5	194.5	581.7	694.7	727.9	761.3	798.4	816.9	818.8
70°	61.1	77.8	133.4	172.3	507.5	605.7	633.5	668.7	698.3	707.6	713.2
72.5°	57.4	72.3	126.0	155.6	431.6	520.5	546.4	566.8	592.8	602.0	602.0
75°	51.9	64.9	118.5	138.9	353.8	426.0	448.3	468.7	489.0	492.8	487.2
77.5°	46.3	57.4	101.9	116.7	276.0	337.1	355.7	366.8	383.4	387.2	389.0
80°	38.9	50.0	79.6	90.8	200.0	248.3	261.2	270.4	285.3	285.3	289.0
82.5°	29.6	38.9	57.4	64.9	135.3	170.4	181.5	187.1	196.4	196.4	196.4
85°	18.5	24.1	37.0	42.6	81.5	103.8	111.1	113.0	120.4	122.3	122.3
87.5°	9.3	13.0	24.1	25.9	42.6	53.7	53.7	57.4	57.4	55.6	53.7
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



TEST NUMBER: P936441

CATALOG NUMBER: SQ4-FB-025U-100D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	576.1	576.1
2.5°	615.0	611.3
5°	790.9	794.7
7.5°	1065.1	1063.3
10°	1324.5	1341.1
12.5°	1513.4	1517.1
15°	1628.3	1635.6
17.5°	1672.7	1674.5
20°	1674.5	1670.9
22.5°	1654.1	1650.5
25°	1630.1	1628.3
27.5°	1607.9	1609.8
30°	1598.6	1604.1
32.5°	1598.6	1607.9
35°	1602.4	1611.6
37.5°	1600.5	1611.6
40°	1593.0	1606.0
42.5°	1572.6	1582.0
45°	1541.2	1552.3
47.5°	1500.5	1507.9
50°	1448.6	1456.0
52.5°	1383.7	1385.6
55°	1306.0	1313.4
57.5°	1222.6	1224.5
60°	1130.0	1135.5
62.5°	1031.8	1031.8
65°	928.1	931.7
67.5°	820.6	829.8
70°	711.3	713.2
72.5°	603.9	603.9
75°	492.8	494.6
77.5°	387.2	387.2
80°	287.1	289.0
82.5°	198.3	201.9
85°	124.1	124.1
87.5°	57.4	51.9
90°	5.3	5.3
92.5°	21.3	17.1
95°	74.5	61.7
97.5°	178.5	154.0
100°	257.2	228.1
102.5°	334.6	309.7
105°	433.3	419.9
107.5°	497.9	501.2
110°	522.6	536.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	524.7	546.2
115°	510.8	540.6
117.5°	481.4	514.4
120°	457.6	489.7
122.5°	434.5	466.0
125°	401.4	430.5
127.5°	371.7	396.3
130°	354.2	376.9
132.5°	338.3	358.6
135°	316.5	334.1
137.5°	299.1	313.4
140°	287.0	300.5
142.5°	277.1	288.7
145°	262.3	271.1
147.5°	250.9	258.1
150°	243.7	249.6
152.5°	237.5	242.0
155°	230.4	233.4
157.5°	224.9	226.9
160°	221.5	222.7
162.5°	219.4	220.5
165°	216.2	217.4
167.5°	214.0	214.4
170°	213.3	213.3
172.5°	211.6	211.2
175°	210.7	210.7
177.5°	209.7	209.3
180°	209.3	209.3



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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	7.55	8.78	8.23	9.49	10.31	20.71	21.95	21.39	22.65	23.48
	3H	8.28	9.39	8.97	10.11	10.97	22.57	23.69	23.27	24.40	25.26
	4H	8.59	9.65	9.31	10.37	11.25	23.23	24.28	23.94	25.01	25.88
	6H	8.86	9.84	9.59	10.57	11.46	23.68	24.65	24.40	25.39	26.28
	8H	8.94	9.87	9.68	10.63	11.52	23.81	24.74	24.54	25.49	26.38
	12H	8.97	9.86	9.72	10.61	11.53	23.88	24.77	24.63	25.52	26.44
4H	2H	14.80	15.85	15.51	16.58	17.45	21.03	22.08	21.75	22.81	23.68
	3H	16.40	17.28	17.13	18.05	18.94	23.10	23.99	23.83	24.75	25.64
	4H	16.51	17.32	17.25	18.08	19.00	23.88	24.69	24.63	25.45	26.37
	6H	16.54	17.24	17.31	18.03	18.96	24.44	25.14	25.20	25.93	26.86
	8H	16.53	17.19	17.30	17.97	18.91	24.61	25.27	25.38	26.05	26.99
	12H	16.50	17.10	17.29	17.90	18.85	24.72	25.31	25.51	26.12	27.07
8H	4H	17.98	18.64	18.75	19.42	20.36	23.98	24.63	24.74	25.42	26.36
	6H	18.24	18.79	19.04	19.62	20.56	24.62	25.17	25.42	25.99	26.93
	8H	18.27	18.75	19.08	19.58	20.54	24.84	25.33	25.65	26.15	27.11
	12H	18.25	18.68	19.07	19.50	20.51	25.00	25.43	25.81	26.25	27.26
12H	4H	18.14	18.74	18.93	19.54	20.49	23.95	24.54	24.74	25.35	26.29
	6H	18.50	18.99	19.31	19.82	20.78	24.61	25.09	25.42	25.92	26.88
	8H	18.59	19.02	19.41	19.84	20.85	24.85	25.28	25.67	26.10	27.11