

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: P936408

Luminaire Tested: SQ4-FB-025U-075D-B50-1D-UNV-W2A-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936408
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-B50-1D-UNV-W2A-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

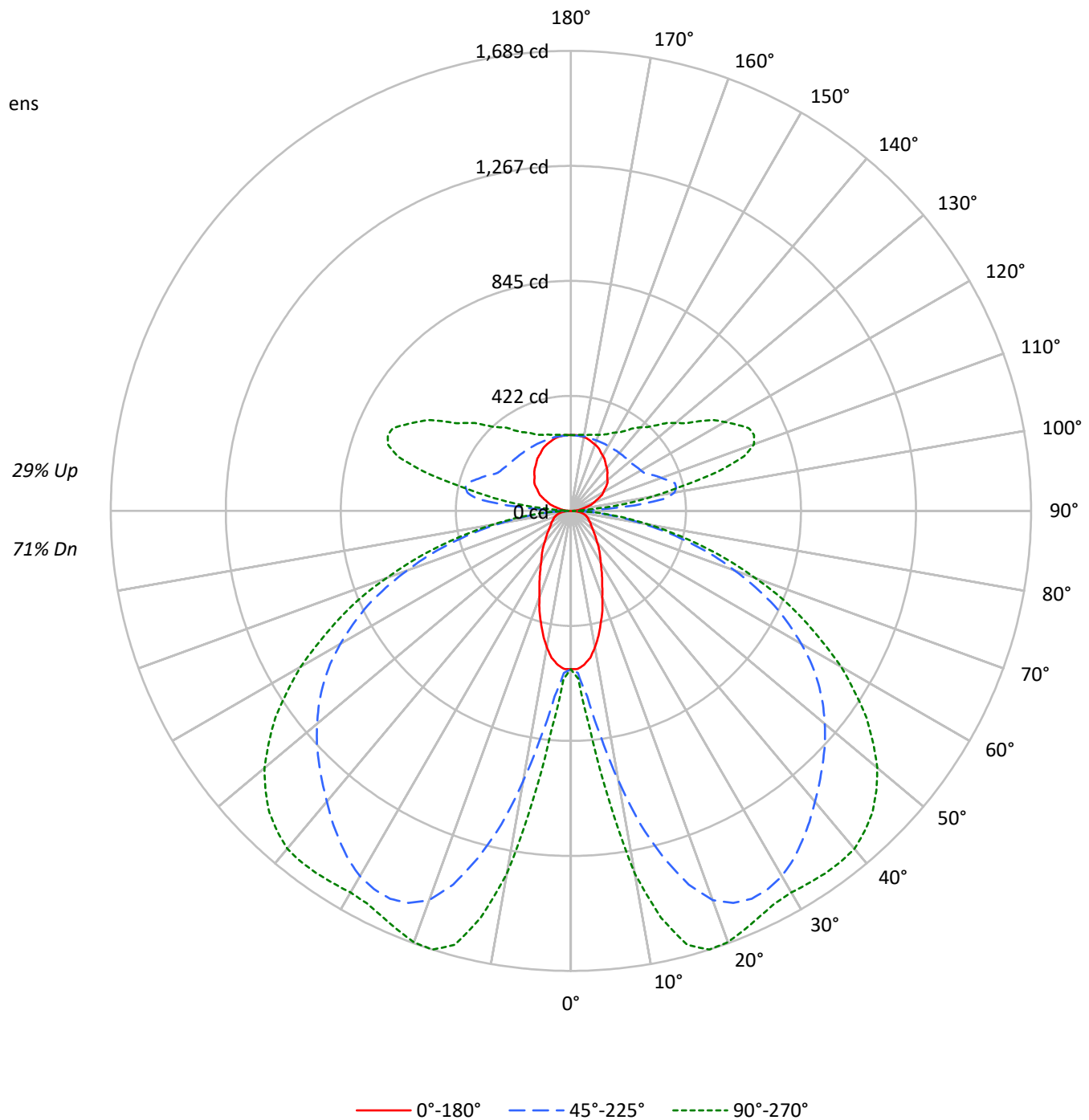
Lumens per Lamp: N/A
Luminaire Lumens: 6302.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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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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	30	10
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2695	2695	2695
5°	2633	3115	3623
10°	2388	4541	6007
15°	2030	5933	7253
20°	1652	6875	7392
25°	1379	7195	7242
30°	1163	7241	7228
35°	1028	7120	7415
40°	895	6964	7608
45°	811	6850	7638
50°	744	6747	7511
55°	713	6596	7179
60°	729	6306	6653
65°	759	5866	5930
70°	808	5116	5010
75°	896	4171	3910
80°	978	2893	2634
85°	871	1535	1349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.2
10°-20°	333.1	5.3
20°-30°	582.6	9.2
30°-40°	750.0	11.9
40°-50°	837.7	13.3
50°-60°	802.3	12.7
60°-70°	635.8	10.1
70°-80°	373.9	5.9
80°-90°	104.9	1.7
90°-100°	135.9	2.2
100°-110°	357.3	5.7
110°-120°	370.4	5.9
120°-130°	297.1	4.7
130°-140°	233.1	3.7
140°-150°	179.0	2.8
150°-160°	128.9	2.0
160°-170°	78.9	1.3
170°-180°	26.6	0.4
0°-30°	990.8	15.7
0°-40°	1740.8	27.6
0°-60°	3380.8	53.6
0°-90°	4495.5	71.3
90°-120°	863.6	13.7
90°-150°	1572.8	25.0
90°-180°	1807.0	28.7
0°-180°	6302.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	566	607	684	773	801	52
15°	424	783	1319	1599	1650	118
25°	271	887	1571	1640	1642	125
35°	183	848	1480	1564	1625	114
45°	125	676	1308	1498	1566	97
55°	90	430	1110	1289	1324	82
65°	71	228	824	926	940	70
75°	52	140	452	497	499	55
85°	19	43	112	123	125	20
90°	2	5	14	7	7	3
95°	18	70	234	121	82	20
105°	64	98	395	600	559	68
115°	114	139	316	631	720	113
125°	159	178	288	486	574	141
135°	190	209	279	393	445	147
145°	220	234	275	335	361	138
155°	248	255	275	302	311	114
165°	268	272	275	286	290	76
175°	279	279	277	281	281	26
180°	279	279	279	279	279	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9
2.5°	580.9	580.9	584.7	586.6	590.3	592.2	595.9	599.6	610.8	612.7	616.4
5°	566.0	573.5	597.8	607.1	633.3	668.7	683.7	708.0	758.4	773.4	782.7
7.5°	543.6	560.4	620.2	635.1	700.5	793.9	833.1	885.4	965.8	1005.0	1036.7
10°	508.1	543.6	650.1	685.6	792.0	934.0	1006.9	1079.8	1201.2	1255.4	1275.9
12.5°	468.9	526.8	681.8	730.4	883.6	1091.0	1178.8	1259.1	1397.4	1470.2	1481.4
15°	424.0	502.5	711.7	782.7	980.7	1221.8	1318.9	1417.9	1546.8	1599.1	1612.2
17.5°	384.8	483.8	739.7	814.4	1055.4	1339.4	1438.5	1520.6	1625.3	1660.7	1670.1
20°	336.2	453.9	758.4	855.5	1134.0	1425.4	1520.6	1584.2	1655.1	1677.6	1681.3
22.5°	300.7	422.2	769.6	870.5	1186.3	1477.7	1558.0	1608.4	1657.0	1664.5	1666.3
25°	270.9	386.7	767.7	887.3	1231.1	1509.4	1571.1	1608.4	1636.5	1640.2	1640.2
27.5°	242.8	347.4	760.3	891.0	1264.7	1516.9	1565.5	1591.6	1604.7	1612.2	1612.2
30°	218.6	310.1	741.6	883.6	1279.7	1509.4	1548.7	1561.7	1574.8	1586.0	1591.6
32.5°	199.9	274.6	713.6	868.6	1281.5	1490.8	1518.8	1526.2	1544.9	1571.1	1580.4
35°	183.1	239.1	681.8	848.1	1270.3	1460.9	1479.5	1487.0	1524.4	1563.6	1576.7
37.5°	166.3	213.0	640.7	812.6	1253.5	1425.4	1438.5	1451.5	1509.4	1556.1	1571.1
40°	149.4	190.5	592.2	773.4	1227.4	1382.4	1393.6	1414.2	1490.8	1544.9	1559.9
42.5°	136.4	171.9	539.9	732.3	1193.7	1333.8	1350.7	1380.5	1468.3	1526.2	1543.1
45°	125.2	153.2	483.8	676.2	1150.8	1283.4	1307.7	1348.8	1442.2	1498.2	1513.2
47.5°	113.9	140.1	425.9	618.3	1104.1	1233.0	1264.7	1311.4	1406.7	1460.9	1473.9
50°	104.6	127.0	368.0	556.7	1053.6	1178.8	1216.2	1264.7	1361.9	1412.3	1429.1
52.5°	97.1	115.8	313.8	495.0	995.6	1122.8	1165.7	1216.2	1307.7	1356.3	1367.5
55°	89.7	106.5	267.1	429.6	935.9	1063.0	1109.7	1158.3	1247.9	1289.0	1296.5
57.5°	85.9	99.0	227.9	368.0	872.4	995.6	1047.9	1092.9	1176.9	1208.7	1216.2
60°	80.3	93.4	198.0	315.7	803.2	932.1	977.0	1021.8	1092.9	1119.0	1124.6
62.5°	74.7	89.7	175.6	265.3	732.3	857.4	902.2	943.3	1003.1	1021.8	1029.3
65°	71.0	85.9	158.8	227.9	659.4	779.0	823.8	859.3	907.8	926.5	930.3
67.5°	67.2	82.2	145.7	196.1	586.6	700.5	734.1	767.7	805.1	823.8	825.7
70°	61.6	78.5	134.5	173.7	511.8	610.8	638.9	674.3	704.2	713.6	719.2
72.5°	57.9	72.9	127.0	156.9	435.2	524.9	551.1	571.6	597.8	607.1	607.1
75°	52.3	65.4	119.6	140.1	356.8	429.6	452.1	472.6	493.2	496.9	491.3
77.5°	46.7	57.9	102.7	117.7	278.3	340.0	358.7	369.9	386.7	390.4	392.3
80°	39.2	50.4	80.3	91.5	201.7	250.3	263.4	272.7	287.7	287.7	291.4
82.5°	29.9	39.2	57.9	65.4	136.4	171.9	183.1	188.7	198.0	198.0	198.0
85°	18.7	24.3	37.4	43.0	82.2	104.6	112.1	113.9	121.4	123.3	123.3
87.5°	9.3	13.1	24.3	26.2	43.0	54.2	54.2	57.9	57.9	56.0	54.2
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4	35.6	34.2
95°	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5	120.7	116.4
97.5°	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5	278.6	270.5
100°	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5	391.3	381.5
102.5°	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9	487.4	479.0
105°	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4	599.6	595.1
107.5°	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8	658.0	659.1
110°	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6	672.9	677.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5	663.4	670.6
115°	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2	631.1	641.0
117.5°	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7	586.4	597.4
120°	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7	556.2	566.8
122.5°	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2	526.1	536.7
125°	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1	486.2	496.0
127.5°	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5	454.3	462.5
130°	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5	434.0	441.6
132.5°	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5	416.8	423.7
135°	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6	392.6	398.4
137.5°	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5	374.5	379.3
140°	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5	360.2	364.6
142.5°	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8	350.1	353.9
145°	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0	334.9	337.8
147.5°	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5	322.1	324.6
150°	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7	314.9	316.8
152.5°	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8	309.1	310.6
155°	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2	302.1	303.1
157.5°	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2	296.2	296.8
160°	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2	293.2	293.6
162.5°	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3	290.4	290.8
165°	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4	286.1	286.5
167.5°	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9	284.2	284.4
170°	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9	284.2	284.2
172.5°	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9	282.7	282.5
175°	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5	280.7	280.7
177.5°	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4	280.3	280.1
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	580.9	580.9
2.5°	620.2	616.4
5°	797.6	801.4
7.5°	1074.2	1072.3
10°	1335.7	1352.5
12.5°	1526.2	1530.0
15°	1642.1	1649.5
17.5°	1686.9	1688.8
20°	1688.8	1685.0
22.5°	1668.2	1664.5
25°	1643.9	1642.1
27.5°	1621.5	1623.4
30°	1612.2	1617.8
32.5°	1612.2	1621.5
35°	1615.9	1625.3
37.5°	1614.0	1625.3
40°	1606.6	1619.6
42.5°	1586.0	1595.4
45°	1554.3	1565.5
47.5°	1513.2	1520.6
50°	1460.9	1468.3
52.5°	1395.5	1397.4
55°	1317.0	1324.5
57.5°	1233.0	1234.8
60°	1139.6	1145.2
62.5°	1040.5	1040.5
65°	935.9	939.6
67.5°	827.5	836.9
70°	717.3	719.2
72.5°	609.0	609.0
75°	496.9	498.8
77.5°	390.4	390.4
80°	289.5	291.4
82.5°	199.9	203.6
85°	125.2	125.2
87.5°	57.9	52.3
90°	7.1	7.1
92.5°	28.5	22.8
95°	99.3	82.1
97.5°	237.8	205.2
100°	342.7	303.8
102.5°	445.8	412.5
105°	577.3	559.4
107.5°	663.4	667.7
110°	696.2	714.9

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	699.2	727.8
115°	680.7	720.3
117.5°	641.4	685.4
120°	609.6	652.4
122.5°	578.8	620.9
125°	534.8	573.7
127.5°	495.2	528.0
130°	471.9	502.1
132.5°	450.7	477.8
135°	421.7	445.1
137.5°	398.4	417.6
140°	382.5	400.4
142.5°	369.3	384.6
145°	349.5	361.1
147.5°	334.2	343.9
150°	324.7	332.5
152.5°	316.4	322.3
155°	307.0	310.9
157.5°	299.6	302.3
160°	295.1	296.7
162.5°	292.2	293.7
165°	288.0	289.6
167.5°	285.1	285.7
170°	284.2	284.2
172.5°	282.0	281.4
175°	280.7	280.7
177.5°	279.5	278.8
180°	278.8	278.8

(END OF REPORT)