

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: P936598

Luminaire Tested: SQ4-FB-025U-125D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936598
REPORT IS A COMBINATION OF REPORTS P933440 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-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

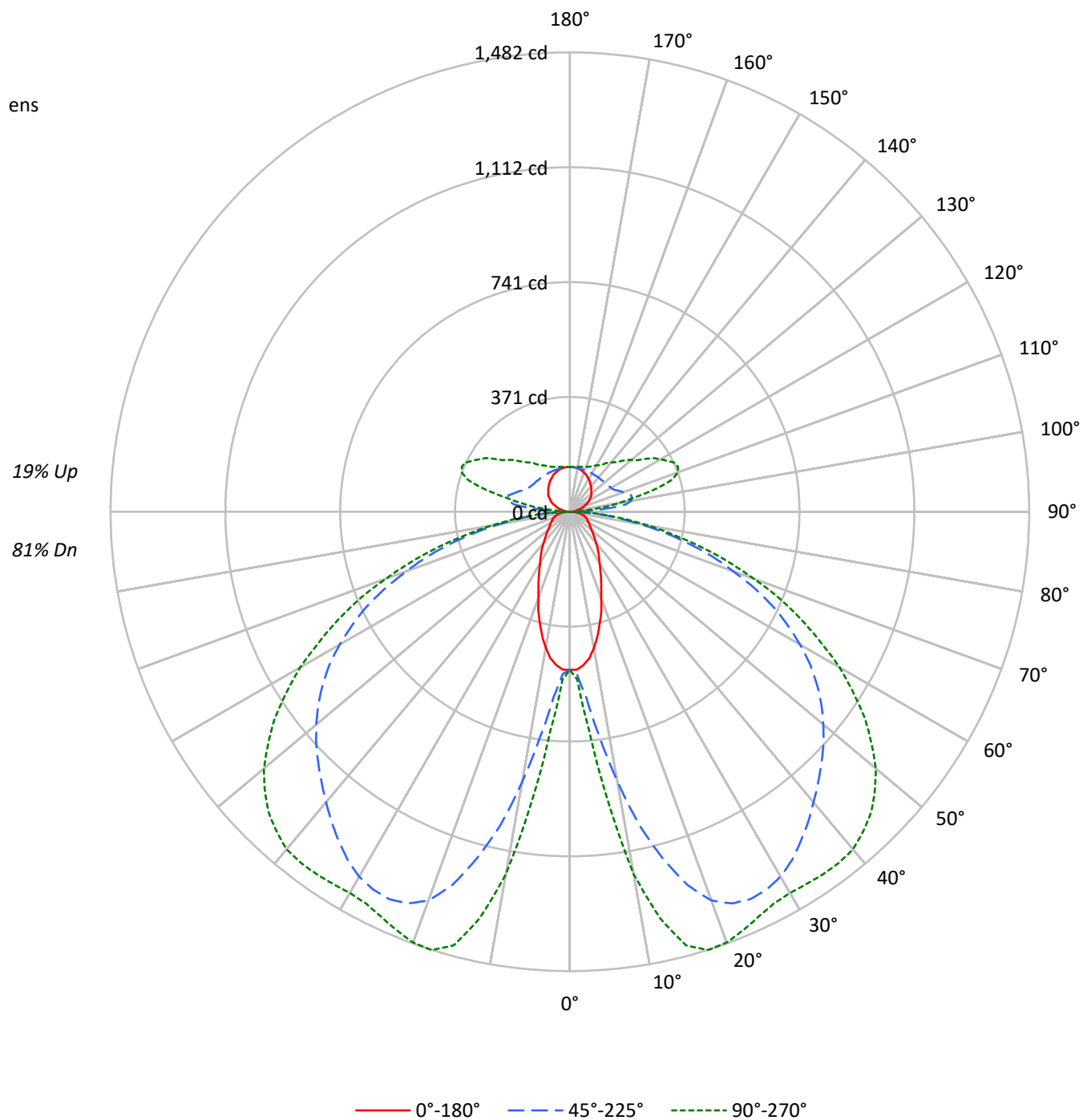
Lumens per Lamp: N/A
Luminaire Lumens: 4882.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.6
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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4731	4731	4731
5°	4617	5465	6360
10°	4183	7960	10544
15°	3552	10392	12732
20°	2889	12034	12976
25°	2407	12584	12713
30°	2027	12653	12689
35°	1789	12434	13016
40°	1557	12151	13355
45°	1407	11940	13407
50°	1288	11749	13186
55°	1229	11471	12601
60°	1254	10954	11678
65°	1298	10172	10410
70°	1373	8854	8795
75°	1505	7200	6863
80°	1610	4976	4625
85°	1358	2626	2368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.4
10°-20°	292.3	6.0
20°-30°	511.4	10.5
30°-40°	658.3	13.5
40°-50°	735.3	15.1
50°-60°	704.2	14.4
60°-70°	558.1	11.4
70°-80°	328.2	6.7
80°-90°	91.7	1.9
90°-100°	70.5	1.4
100°-110°	185.3	3.8
110°-120°	192.2	3.9
120°-130°	154.1	3.2
130°-140°	120.9	2.5
140°-150°	92.8	1.9
150°-160°	66.8	1.4
160°-170°	40.9	0.8
170°-180°	13.8	0.3
0°-30°	869.7	17.8
0°-40°	1527.9	31.3
0°-60°	2967.4	60.8
0°-90°	3945.4	80.8
90°-120°	448.0	9.2
90°-150°	815.9	16.7
90°-180°	937.0	19.2
0°-180°	4882.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	497	533	600	679	703	46
15°	372	687	1158	1404	1448	104
25°	238	779	1379	1440	1441	110
35°	161	744	1299	1372	1426	100
45°	110	594	1148	1315	1374	85
55°	79	377	974	1131	1162	72
65°	62	200	723	813	825	62
75°	46	123	397	436	438	48
85°	16	38	98	108	110	17
90°	1	3	7	4	4	2
95°	9	36	121	63	43	10
105°	33	51	205	311	290	35
115°	59	72	164	327	374	59
125°	82	92	149	252	298	73
135°	98	108	145	204	231	76
145°	114	121	143	174	187	71
155°	129	132	143	157	161	59
165°	139	141	143	148	150	39
175°	145	145	144	146	146	14
180°	145	145	145	145	145	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	509.9	509.9	513.2	514.8	518.1	519.8	523.1	526.4	536.1	537.8	541.1
5°	496.8	503.4	524.7	532.9	555.8	587.0	600.1	621.4	665.7	678.8	687.0
7.5°	477.1	491.9	544.4	557.5	614.8	696.8	731.3	777.2	847.7	882.1	910.0
10°	445.9	477.1	570.5	601.7	695.2	819.8	883.7	947.7	1054.3	1101.8	1119.9
12.5°	411.5	462.4	598.5	641.1	775.6	957.6	1034.6	1105.1	1226.5	1290.4	1300.2
15°	372.2	441.1	624.7	687.0	860.8	1072.3	1157.6	1244.5	1357.7	1403.5	1415.0
17.5°	337.8	424.7	649.3	714.9	926.4	1175.6	1262.5	1334.7	1426.5	1457.7	1465.8
20°	295.2	398.5	665.7	751.0	995.3	1251.1	1334.7	1390.4	1452.7	1472.4	1475.7
22.5°	264.0	370.5	675.5	764.1	1041.2	1296.9	1367.5	1411.7	1454.4	1461.0	1462.5
25°	237.8	339.4	673.9	778.8	1080.5	1324.8	1379.0	1411.7	1436.3	1439.6	1439.6
27.5°	213.2	304.9	667.4	782.1	1110.0	1331.4	1374.0	1397.0	1408.4	1415.0	1415.0
30°	191.9	272.2	651.0	775.6	1123.2	1324.8	1359.2	1370.7	1382.2	1392.1	1397.0
32.5°	175.5	241.0	626.4	762.4	1124.8	1308.4	1333.1	1339.5	1356.0	1379.0	1387.1
35°	160.7	209.9	598.5	744.4	1114.9	1282.2	1298.6	1305.1	1337.9	1372.4	1383.8
37.5°	145.9	186.9	562.4	713.3	1100.2	1251.1	1262.5	1274.0	1324.8	1365.8	1379.0
40°	131.2	167.2	519.8	678.8	1077.2	1213.3	1223.2	1241.2	1308.4	1356.0	1369.1
42.5°	119.7	150.9	473.8	642.7	1047.7	1170.7	1185.5	1211.7	1288.8	1339.5	1354.4
45°	109.9	134.5	424.7	593.5	1010.0	1126.5	1147.8	1183.8	1265.8	1315.0	1328.1
47.5°	100.0	123.0	373.8	542.7	969.0	1082.2	1110.0	1151.1	1234.6	1282.2	1293.7
50°	91.9	111.5	323.0	488.6	924.7	1034.6	1067.5	1110.0	1195.3	1239.5	1254.4
52.5°	85.3	101.6	275.5	434.5	873.9	985.4	1023.2	1067.5	1147.8	1190.4	1200.2
55°	78.7	93.4	234.5	377.1	821.4	933.0	973.9	1016.6	1095.3	1131.3	1137.9
57.5°	75.4	86.9	200.0	323.0	765.7	873.9	919.9	959.2	1033.0	1060.9	1067.5
60°	70.5	82.0	173.8	277.1	705.0	818.2	857.6	896.9	959.2	982.2	987.0
62.5°	65.6	78.7	154.2	232.9	642.7	752.6	792.0	828.0	880.5	896.9	903.4
65°	62.3	75.4	139.3	200.0	578.8	683.7	723.1	754.3	796.9	813.3	816.6
67.5°	59.0	72.2	127.9	172.2	514.8	614.8	644.4	673.9	706.7	723.1	724.7
70°	54.1	68.9	118.0	152.5	449.2	536.1	560.8	591.9	618.1	626.4	631.3
72.5°	50.9	64.0	111.5	137.7	382.1	460.8	483.7	501.7	524.7	532.9	532.9
75°	45.9	57.4	104.9	123.0	313.2	377.1	396.8	414.8	432.9	436.1	431.2
77.5°	41.0	50.9	90.2	103.3	244.3	298.5	314.8	324.6	339.4	342.6	344.3
80°	34.4	44.3	70.5	80.3	177.0	219.7	231.2	239.3	252.5	252.5	255.8
82.5°	26.3	34.4	50.9	57.4	119.7	150.9	160.7	165.6	173.8	173.8	173.8
85°	16.4	21.3	32.8	37.7	72.2	91.9	98.4	100.0	106.6	108.2	108.2
87.5°	8.2	11.4	21.3	23.0	37.7	47.6	47.6	50.9	50.9	49.2	47.6
90°	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9	3.7	3.7
92.5°	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2	18.4	17.6
95°	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2	62.6	60.4
97.5°	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9	144.5	140.2
100°	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0	202.9	197.9
102.5°	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0	252.8	248.5
105°	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7	311.0	308.7
107.5°	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0	341.4	342.0
110°	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9	349.1	351.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7	344.2	347.9
115°	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0	327.3	332.5
117.5°	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0	304.2	309.9
120°	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7	288.6	294.1
122.5°	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5	272.9	278.3
125°	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9	252.2	257.3
127.5°	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2	235.7	239.9
130°	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9	225.2	229.1
132.5°	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7	216.3	219.8
135°	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9	203.6	206.6
137.5°	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6	194.3	196.8
140°	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5	186.8	189.1
142.5°	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0	181.6	183.6
145°	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4	173.7	175.3
147.5°	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0	167.2	168.4
150°	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5	163.4	164.3
152.5°	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5	160.4	161.1
155°	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1	156.8	157.3
157.5°	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0	153.6	154.0
160°	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9	152.0	152.2
162.5°	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0	150.6	150.8
165°	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5	148.4	148.5
167.5°	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1	147.4	147.5
170°	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1	147.4	147.4
172.5°	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6	146.6	146.5
175°	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0	145.5	145.5
177.5°	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9	145.4	145.3
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	509.9	509.9
2.5°	544.4	541.1
5°	700.1	703.4
7.5°	942.8	941.2
10°	1172.3	1187.1
12.5°	1339.5	1342.8
15°	1441.3	1447.8
17.5°	1480.6	1482.3
20°	1482.3	1479.0
22.5°	1464.2	1461.0
25°	1442.8	1441.3
27.5°	1423.2	1424.8
30°	1415.0	1420.0
32.5°	1415.0	1423.2
35°	1418.3	1426.5
37.5°	1416.7	1426.5
40°	1410.1	1421.5
42.5°	1392.1	1400.2
45°	1364.2	1374.0
47.5°	1328.1	1334.7
50°	1282.2	1288.8
52.5°	1224.8	1226.5
55°	1155.9	1162.5
57.5°	1082.2	1083.8
60°	1000.2	1005.1
62.5°	913.3	913.3
65°	821.4	824.7
67.5°	726.4	734.6
70°	629.7	631.3
72.5°	534.5	534.5
75°	436.1	437.8
77.5°	342.6	342.6
80°	254.2	255.8
82.5°	175.5	178.7
85°	109.9	109.9
87.5°	50.9	45.9
90°	3.7	3.7
92.5°	14.7	11.8
95°	51.6	42.6
97.5°	123.4	106.5
100°	177.8	157.7
102.5°	231.2	214.0
105°	299.5	290.2
107.5°	344.2	346.4
110°	361.1	370.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	362.7	377.5
115°	353.1	373.6
117.5°	332.7	355.5
120°	316.3	338.4
122.5°	300.2	322.1
125°	277.4	297.6
127.5°	256.9	273.8
130°	244.8	260.5
132.5°	233.8	247.9
135°	218.8	230.9
137.5°	206.7	216.7
140°	198.4	207.7
142.5°	191.6	199.5
145°	181.3	187.3
147.5°	173.4	178.4
150°	168.4	172.5
152.5°	164.1	167.2
155°	159.3	161.3
157.5°	155.4	156.9
160°	153.1	153.9
162.5°	151.6	152.3
165°	149.4	150.2
167.5°	147.8	148.2
170°	147.4	147.4
172.5°	146.2	145.9
175°	145.5	145.5
177.5°	145.0	144.6
180°	144.6	144.6

(END OF REPORT)