

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: P937398

Luminaire Tested: SQ4-FB-075U-125D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937398
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-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

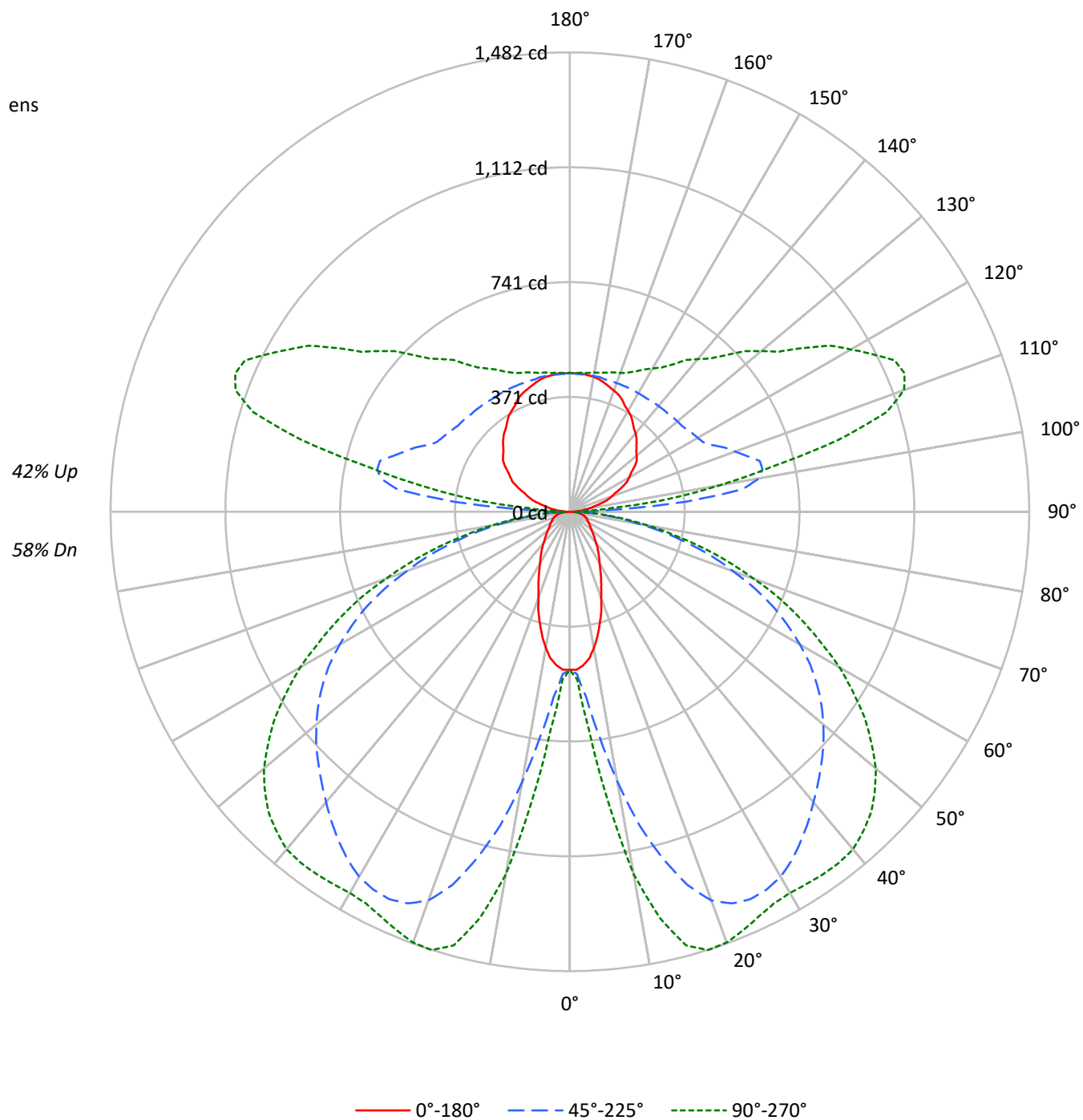
Lumens per Lamp: N/A
Luminaire Lumens: 6848.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14

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	1.0
10°-20°	292.3	4.3
20°-30°	511.4	7.5
30°-40°	658.3	9.6
40°-50°	735.3	10.7
50°-60°	704.2	10.3
60°-70°	558.1	8.1
70°-80°	328.2	4.8
80°-90°	92.9	1.4
90°-100°	218.2	3.2
100°-110°	573.6	8.4
110°-120°	594.7	8.7
120°-130°	477.1	7.0
130°-140°	374.3	5.5
140°-150°	287.3	4.2
150°-160°	206.9	3.0
160°-170°	126.6	1.8
170°-180°	42.8	0.6
0°-30°	869.7	12.7
0°-40°	1527.9	22.3
0°-60°	2967.4	43.3
0°-90°	3946.5	57.6
90°-120°	1386.5	20.2
90°-150°	2525.2	36.9
90°-180°	2901.0	42.4
0°-180°	6848.0	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°	3	8	23	11	11	4
95°	29	113	376	194	132	32
105°	103	156	634	963	898	110
115°	184	223	508	1013	1156	181
125°	255	286	462	781	921	227
135°	304	335	448	630	715	235
145°	353	376	442	538	580	221
155°	399	410	442	485	499	183
165°	430	436	442	459	465	121
175°	448	448	445	451	451	42
180°	448	448	448	448	448	

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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°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6

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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°	11.4	11.4
92.5°	45.7	36.6
95°	159.4	131.9
97.5°	381.9	329.6
100°	550.2	487.8
102.5°	715.7	662.3
105°	926.8	898.2
107.5°	1065.1	1072.1
110°	1117.8	1147.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1122.6	1168.5
115°	1092.8	1156.5
117.5°	1029.7	1100.3
120°	978.8	1047.4
122.5°	929.3	997.0
125°	858.6	920.9
127.5°	795.1	847.7
130°	757.7	806.2
132.5°	723.6	767.2
135°	677.1	714.6
137.5°	639.7	670.5
140°	614.2	642.8
142.5°	592.8	617.5
145°	561.1	579.8
147.5°	536.6	552.1
150°	521.2	533.8
152.5°	508.0	517.5
155°	492.9	499.2
157.5°	481.0	485.4
160°	473.8	476.4
162.5°	469.2	471.6
165°	462.5	465.0
167.5°	457.7	458.7
170°	456.3	456.3
172.5°	452.7	451.7
175°	450.6	450.6
177.5°	448.6	447.6
180°	447.6	447.6

(END OF REPORT)