

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: P937099

Luminaire Tested: SQ4-FB-075U-050D-B35-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937099
REPORT IS A COMBINATION OF REPORTS P933509 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-B35-1D-UNV-W2A-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

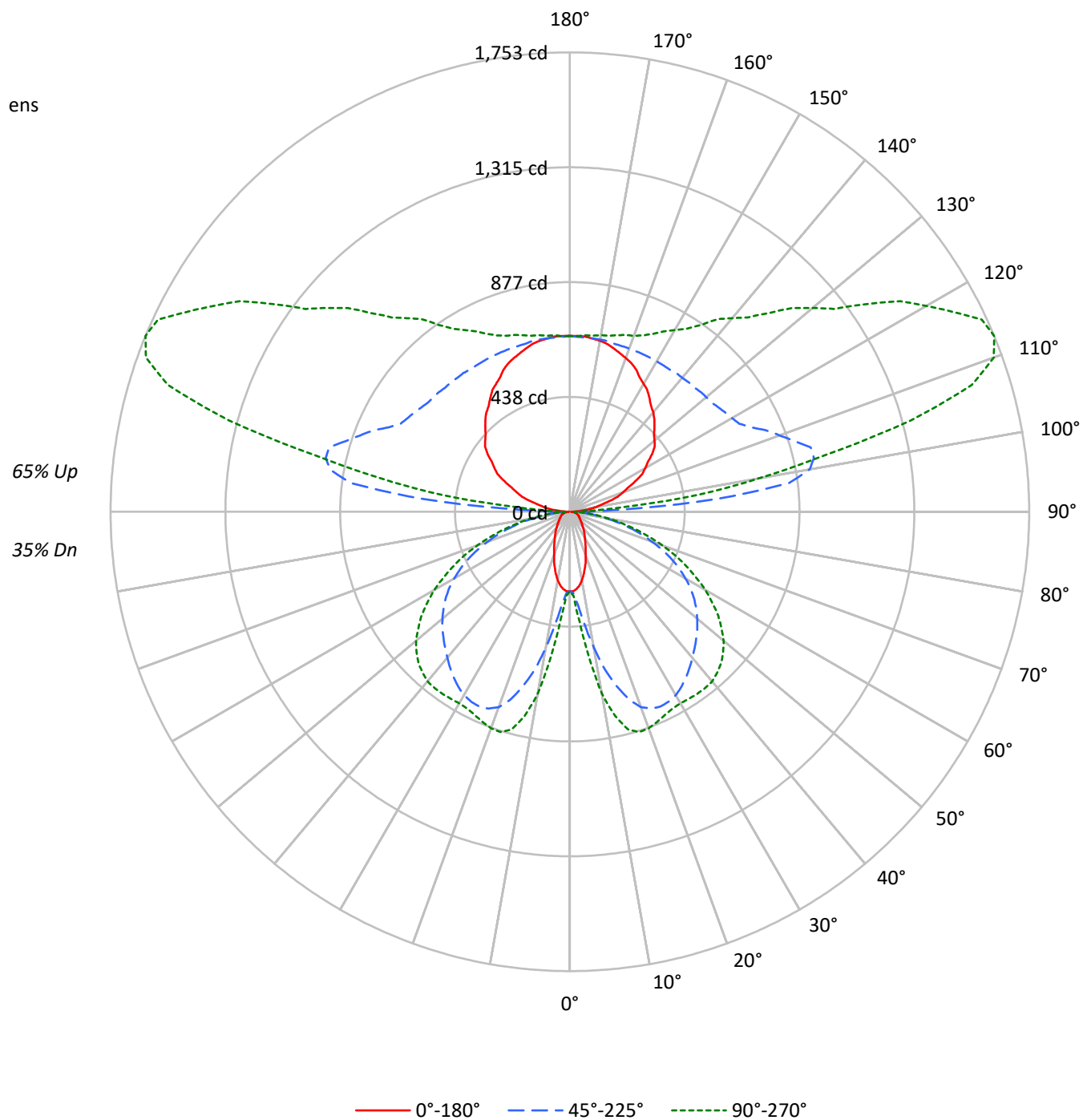
Lumens per Lamp: N/A
Luminaire Lumens: 6699.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 51.6
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1875	1875	1875
5°	1832	2167	2520
10°	1660	3158	4178
15°	1410	4124	5046
20°	1148	4779	5143
25°	958	4999	5038
30°	807	5029	5028
35°	713	4944	5158
40°	621	4835	5293
45°	562	4754	5314
50°	515	4681	5225
55°	493	4575	4994
60°	505	4372	4628
65°	523	4064	4125
70°	557	3541	3486
75°	614	2886	2721
80°	664	1998	1832
85°	584	1059	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.6
10°-20°	173.8	2.6
20°-30°	304.0	4.5
30°-40°	391.3	5.8
40°-50°	437.1	6.5
50°-60°	418.6	6.2
60°-70°	331.7	5.0
70°-80°	195.1	2.9
80°-90°	56.8	0.8
90°-100°	327.2	4.9
100°-110°	860.4	12.8
110°-120°	892.1	13.3
120°-130°	715.6	10.7
130°-140°	561.5	8.4
140°-150°	431.0	6.4
150°-160°	310.4	4.6
160°-170°	189.9	2.8
170°-180°	64.2	1.0
0°-30°	517.0	7.7
0°-40°	908.3	13.6
0°-60°	1764.0	26.3
0°-90°	2347.5	35.0
90°-120°	2079.7	31.0
90°-150°	3787.7	56.5
90°-180°	4352.0	65.0
0°-180°	6699.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	295	317	357	404	418	27
15°	221	408	688	834	861	62
25°	141	463	820	856	857	65
35°	96	442	772	816	848	60
45°	65	353	682	782	817	51
55°	47	224	579	672	691	43
65°	37	119	430	483	490	37
75°	27	73	236	259	260	29
85°	10	22	58	64	65	10
90°	4	13	34	17	17	4
95°	43	169	564	291	198	48
105°	155	235	951	1444	1347	164
115°	275	334	762	1520	1735	272
125°	383	429	693	1171	1382	340
135°	456	502	671	945	1072	353
145°	530	563	663	806	870	332
155°	598	615	663	728	749	275
165°	646	654	663	689	698	182
175°	671	671	667	676	676	64
180°	671	671	671	671	671	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1
2.5°	303.1	303.1	305.0	306.0	308.0	309.0	311.0	312.9	318.7	319.7	321.6
5°	295.4	299.2	311.9	316.8	330.4	348.9	356.7	369.4	395.7	403.5	408.4
7.5°	283.6	292.4	323.5	331.4	365.5	414.2	434.7	462.0	503.9	524.4	541.0
10°	265.1	283.6	339.2	357.8	413.3	487.3	525.4	563.4	626.7	654.9	665.7
12.5°	244.7	274.9	355.7	381.1	461.1	569.2	615.0	657.0	729.1	767.1	772.9
15°	221.2	262.2	371.3	408.4	511.7	637.4	688.1	739.8	807.1	834.3	841.2
17.5°	200.8	252.4	386.0	425.0	550.7	698.8	750.5	793.4	848.0	866.5	871.3
20°	175.5	236.8	395.7	446.4	591.7	743.7	793.4	826.6	863.6	875.3	877.2
22.5°	156.9	220.3	401.6	454.2	618.9	770.9	812.9	839.2	864.5	868.4	869.4
25°	141.4	201.7	400.6	463.0	642.4	787.5	819.7	839.2	853.8	855.7	855.7
27.5°	126.7	181.3	396.7	464.9	659.9	791.5	816.8	830.4	837.2	841.2	841.2
30°	114.1	161.8	386.9	461.1	667.6	787.5	808.0	814.8	821.6	827.5	830.4
32.5°	104.3	143.3	372.3	453.2	668.6	777.8	792.4	796.3	806.0	819.7	824.6
35°	95.5	124.8	355.7	442.5	662.8	762.2	771.9	775.9	795.4	815.8	822.6
37.5°	86.7	111.1	334.3	424.0	654.0	743.7	750.5	757.4	787.5	811.9	819.7
40°	78.0	99.4	309.0	403.5	640.4	721.2	727.1	737.8	777.8	806.0	813.9
42.5°	71.1	89.6	281.7	382.1	622.8	695.9	704.7	720.3	766.1	796.3	805.0
45°	65.3	79.9	252.4	352.8	600.4	669.6	682.3	703.7	752.4	781.7	789.4
47.5°	59.5	73.1	222.2	322.6	576.1	643.3	659.9	684.2	733.9	762.2	769.0
50°	54.6	66.3	192.1	290.4	549.7	615.0	634.5	659.9	710.6	736.8	745.6
52.5°	50.7	60.5	163.8	258.3	519.5	585.8	608.2	634.5	682.3	707.7	713.5
55°	46.8	55.5	139.3	224.1	488.3	554.6	579.0	604.3	651.1	672.5	676.5
57.5°	44.9	51.6	118.9	192.1	455.1	519.5	546.8	570.2	614.1	630.6	634.5
60°	42.0	48.7	103.3	164.7	419.1	486.3	509.8	533.1	570.2	583.8	586.7
62.5°	39.0	46.8	91.7	138.4	382.1	447.4	470.7	492.3	523.4	533.1	537.0
65°	37.0	44.9	82.8	118.9	344.1	406.4	429.8	448.4	473.6	483.4	485.4
67.5°	35.1	42.9	76.1	102.3	306.0	365.5	383.0	400.6	420.1	429.8	430.8
70°	32.2	40.9	70.2	90.6	267.1	318.7	333.3	351.8	367.4	372.3	375.3
72.5°	30.2	38.0	66.3	81.9	227.1	273.8	287.5	298.3	311.9	316.8	316.8
75°	27.3	34.1	62.4	73.1	186.1	224.1	235.9	246.6	257.3	259.3	256.3
77.5°	24.3	30.2	53.6	61.4	145.3	177.4	187.1	193.0	201.7	203.7	204.7
80°	20.4	26.4	42.0	47.8	105.2	130.6	137.4	142.3	150.1	150.1	152.0
82.5°	15.6	20.4	30.2	34.1	71.1	89.6	95.5	98.5	103.3	103.3	103.3
85°	9.8	12.7	19.5	22.4	42.9	54.6	58.5	59.5	63.4	64.3	64.3
87.5°	4.8	6.8	12.7	13.7	22.4	28.3	28.3	30.2	30.2	29.3	28.3
90°	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9	17.2	17.2
92.5°	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3	85.6	82.2
95°	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6	290.6	280.3
97.5°	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5	670.9	651.3
100°	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0	942.2	918.8
102.5°	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5	1173.7	1153.7
105°	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8	1444.1	1433.3
107.5°	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5	1584.7	1587.3
110°	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5	1620.7	1632.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5	1597.7	1614.9
115°	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2	1519.8	1543.6
117.5°	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1	1412.1	1438.6
120°	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2	1339.5	1365.3
122.5°	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4	1267.0	1292.4
125°	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7	1171.0	1194.4
127.5°	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2	1094.0	1113.8
130°	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6	1045.4	1063.6
132.5°	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9	1003.9	1020.2
135°	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0	945.3	959.3
137.5°	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8	902.0	913.6
140°	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7	867.4	878.1
142.5°	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4	843.0	852.3
145°	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6	806.5	813.5
147.5°	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2	775.9	781.7
150°	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5	758.3	763.1
152.5°	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2	744.4	748.0
155°	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1	727.7	730.0
157.5°	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4	713.3	714.9
160°	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6	706.0	707.0
162.5°	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1	699.3	700.2
165°	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2	689.0	689.9
167.5°	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7	684.4	684.8
170°	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7	684.4	684.4
172.5°	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3	680.8	680.4
175°	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0	675.9	675.9
177.5°	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8	675.0	674.6
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	303.1	303.1
2.5°	323.5	321.6
5°	416.2	418.1
7.5°	560.5	559.5
10°	696.9	705.6
12.5°	796.3	798.3
15°	856.8	860.7
17.5°	880.1	881.1
20°	881.1	879.2
22.5°	870.4	868.4
25°	857.8	856.8
27.5°	846.0	847.0
30°	841.2	844.1
32.5°	841.2	846.0
35°	843.1	848.0
37.5°	842.2	848.0
40°	838.2	845.1
42.5°	827.5	832.4
45°	811.0	816.8
47.5°	789.4	793.4
50°	762.2	766.1
52.5°	728.1	729.1
55°	687.1	691.1
57.5°	643.3	644.3
60°	594.6	597.5
62.5°	542.9	542.9
65°	488.3	490.2
67.5°	431.8	436.6
70°	374.3	375.3
72.5°	317.7	317.7
75°	259.3	260.3
77.5°	203.7	203.7
80°	151.1	152.0
82.5°	104.3	106.2
85°	65.3	65.3
87.5°	30.2	27.3
90°	17.2	17.2
92.5°	68.5	54.9
95°	239.1	197.8
97.5°	572.8	494.3
100°	825.2	731.7
102.5°	1073.7	993.5
105°	1390.2	1347.2
107.5°	1597.7	1608.1
110°	1676.8	1721.6

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1683.8	1752.7
115°	1639.2	1734.7
117.5°	1544.5	1650.4
120°	1468.2	1571.1
122.5°	1393.9	1495.5
125°	1288.0	1381.5
127.5°	1192.6	1271.5
130°	1136.4	1209.3
132.5°	1085.5	1150.8
135°	1015.6	1071.9
137.5°	959.6	1005.7
140°	921.2	964.3
142.5°	889.3	926.4
145°	841.6	869.6
147.5°	804.9	828.1
150°	781.9	800.7
152.5°	762.1	776.4
155°	739.4	748.8
157.5°	721.5	728.1
160°	710.8	714.6
162.5°	703.8	707.4
165°	693.7	697.5
167.5°	686.4	688.0
170°	684.4	684.4
172.5°	679.1	677.6
175°	675.9	675.9
177.5°	673.0	671.3
180°	671.3	671.3

(END OF REPORT)