

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: P936397

Luminaire Tested: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936397
REPORT IS A COMBINATION OF REPORTS P933430 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-B35-1D-UNV-W2A-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

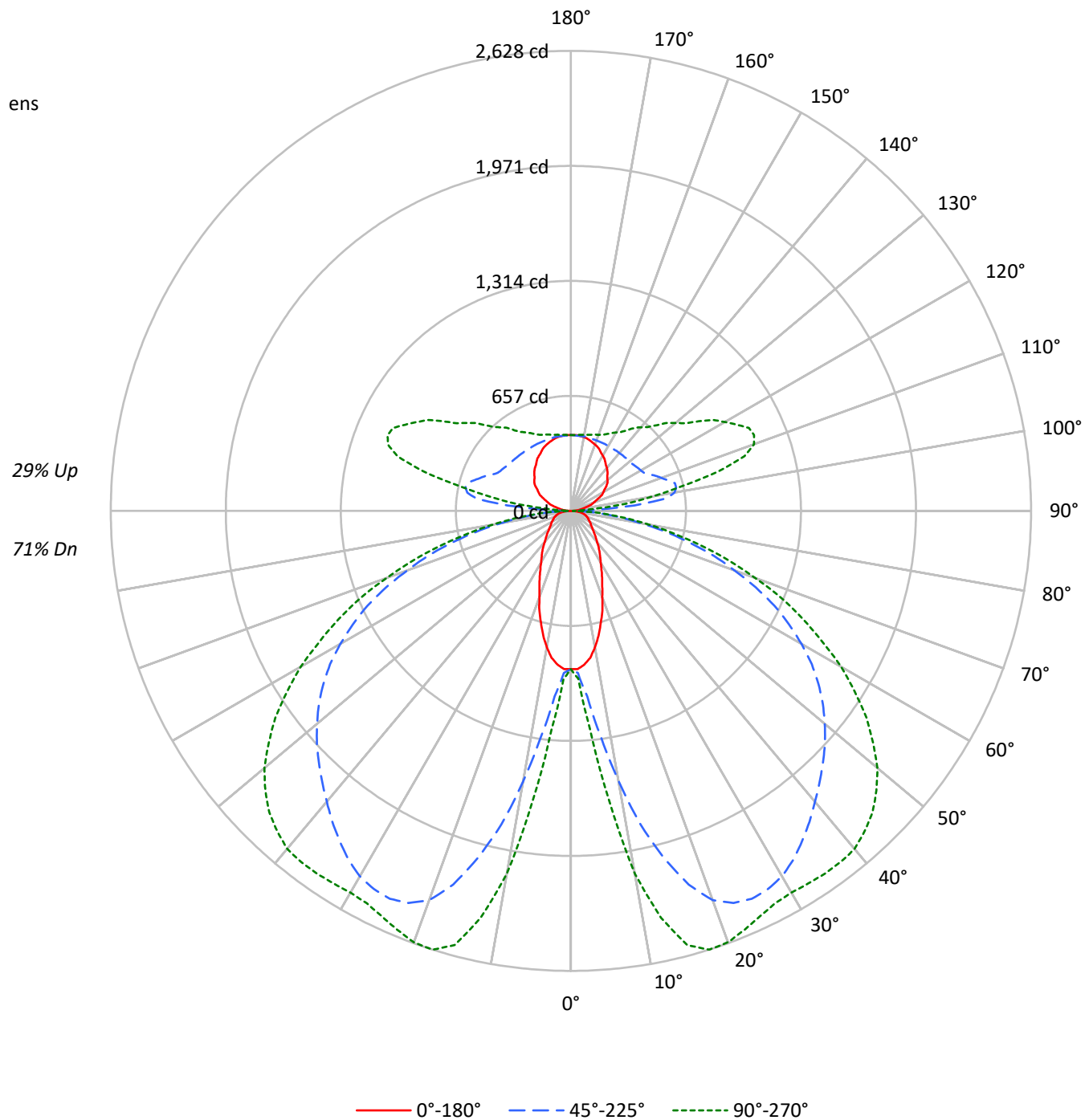
Lumens per Lamp: N/A
Luminaire Lumens: 9808.2 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 90
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			0
RW	70	50	30	10	70	50	30	10	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	71		
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58		
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48		
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39		
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33		
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28		
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24		
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21		
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18		
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16		
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2796	2796	2796
5°	2733	3233	3759
10°	2480	4714	6232
15°	2108	6160	7525
20°	1717	7140	7669
25°	1433	7474	7513
30°	1209	7523	7499
35°	1070	7400	7693
40°	933	7240	7893
45°	845	7123	7924
50°	776	7018	7793
55°	743	6864	7448
60°	762	6566	6902
65°	795	6111	6153
70°	848	5332	5198
75°	943	4352	4056
80°	1038	3022	2733
85°	943	1606	1399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	1.2
10°-20°	518.3	5.3
20°-30°	906.6	9.2
30°-40°	1167.1	11.9
40°-50°	1303.6	13.3
50°-60°	1248.6	12.7
60°-70°	989.5	10.1
70°-80°	581.8	5.9
80°-90°	163.3	1.7
90°-100°	211.5	2.2
100°-110°	556.0	5.7
110°-120°	576.5	5.9
120°-130°	462.4	4.7
130°-140°	362.8	3.7
140°-150°	278.5	2.8
150°-160°	200.6	2.0
160°-170°	122.7	1.3
170°-180°	41.5	0.4
0°-30°	1541.9	15.7
0°-40°	2709.0	27.6
0°-60°	5261.2	53.6
0°-90°	6995.9	71.3
90°-120°	1343.9	13.7
90°-150°	2447.6	25.0
90°-180°	2812.0	28.7
0°-180°	9808.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	881	945	1064	1204	1247	81
15°	660	1218	2052	2488	2567	184
25°	422	1381	2445	2552	2555	194
35°	285	1320	2302	2433	2529	178
45°	195	1052	2035	2332	2436	151
55°	140	669	1727	2006	2061	127
65°	110	355	1282	1442	1462	110
75°	81	218	704	773	776	85
85°	29	67	174	192	195	31
90°	3	8	22	11	11	4
95°	28	110	364	188	128	31
105°	100	152	615	933	870	106
115°	178	216	492	982	1121	176
125°	248	278	448	757	893	220
135°	295	325	434	611	693	228
145°	342	364	428	521	562	214
155°	387	397	428	470	484	178
165°	417	423	428	445	451	118
175°	434	434	431	437	437	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
2.5°	904.1	904.1	909.9	912.8	918.6	921.5	927.3	933.1	950.6	953.5	959.3
5°	880.8	892.4	930.2	944.8	985.5	1040.7	1064.0	1101.8	1180.3	1203.6	1218.1
7.5°	845.9	872.1	965.1	988.4	1090.1	1235.6	1296.6	1378.0	1503.0	1564.1	1613.5
10°	790.7	845.9	1011.6	1066.9	1232.7	1453.6	1567.0	1680.3	1869.3	1953.6	1985.6
12.5°	729.7	819.8	1061.1	1136.7	1375.1	1697.8	1834.4	1959.4	2174.5	2287.9	2305.3
15°	659.9	782.0	1107.7	1218.1	1526.3	1901.3	2052.4	2206.5	2407.1	2488.5	2508.8
17.5°	598.8	752.9	1151.3	1267.5	1642.6	2084.4	2238.5	2366.4	2529.2	2584.4	2599.0
20°	523.3	706.4	1180.3	1331.5	1764.6	2218.1	2366.4	2465.2	2575.7	2610.6	2616.4
22.5°	468.0	657.0	1197.8	1354.8	1846.0	2299.5	2424.5	2503.0	2578.6	2590.2	2593.1
25°	421.5	601.7	1194.9	1380.9	1915.8	2349.0	2444.9	2503.0	2546.6	2552.4	2552.4
27.5°	377.9	540.7	1183.2	1386.7	1968.1	2360.6	2436.2	2476.9	2497.2	2508.8	2508.8
30°	340.1	482.6	1154.2	1375.1	1991.4	2349.0	2410.0	2430.3	2450.7	2468.1	2476.9
32.5°	311.0	427.3	1110.6	1351.9	1994.3	2319.9	2363.5	2375.1	2404.2	2444.9	2459.4
35°	284.9	372.1	1061.1	1319.9	1976.9	2273.4	2302.4	2314.1	2372.2	2433.3	2453.6
37.5°	258.7	331.4	997.1	1264.6	1950.7	2218.1	2238.5	2258.8	2349.0	2421.6	2444.9
40°	232.6	296.5	921.5	1203.6	1910.0	2151.3	2168.7	2200.7	2319.9	2404.2	2427.4
42.5°	212.2	267.4	840.1	1139.6	1857.7	2075.7	2101.9	2148.4	2285.0	2375.1	2401.3
45°	194.8	238.4	752.9	1052.3	1790.8	1997.2	2035.0	2099.0	2244.3	2331.5	2354.8
47.5°	177.3	218.0	662.8	962.2	1718.1	1918.7	1968.1	2040.8	2189.1	2273.4	2293.7
50°	162.8	197.7	572.7	866.3	1639.6	1834.4	1892.6	1968.1	2119.3	2197.8	2224.0
52.5°	151.2	180.2	488.4	770.4	1549.5	1747.2	1814.1	1892.6	2035.0	2110.6	2128.0
55°	139.5	165.7	415.7	668.6	1456.5	1654.2	1726.9	1802.4	1942.0	2005.9	2017.6
57.5°	133.7	154.1	354.7	572.7	1357.7	1549.5	1630.9	1700.7	1831.5	1880.9	1892.6
60°	125.0	145.4	308.1	491.3	1250.1	1450.7	1520.5	1590.2	1700.7	1741.4	1750.1
62.5°	116.3	139.5	273.3	412.8	1139.6	1334.4	1404.2	1468.1	1561.2	1590.2	1601.9
65°	110.5	133.7	247.1	354.7	1026.2	1212.3	1282.1	1337.3	1412.9	1442.0	1447.8
67.5°	104.7	127.9	226.7	305.2	912.8	1090.1	1142.5	1194.9	1253.0	1282.1	1285.0
70°	95.9	122.1	209.3	270.4	796.5	950.6	994.2	1049.4	1095.9	1110.6	1119.3
72.5°	90.1	113.4	197.7	244.2	677.3	816.9	857.6	889.5	930.2	944.8	944.8
75°	81.4	101.7	186.0	218.0	555.2	668.6	703.5	735.5	767.4	773.3	764.5
77.5°	72.7	90.1	159.9	183.1	433.1	529.1	558.1	575.6	601.7	607.6	610.5
80°	61.0	78.5	125.0	142.4	314.0	389.5	409.9	424.4	447.7	447.7	453.5
82.5°	46.5	61.0	90.1	101.7	212.2	267.4	284.9	293.6	308.1	308.1	308.1
85°	29.1	37.8	58.1	66.9	127.9	162.8	174.4	177.3	189.0	191.9	191.9
87.5°	14.5	20.3	37.8	40.7	66.9	84.3	84.3	90.1	90.1	87.2	84.3
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7	11.0	11.0
92.5°	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4	55.3	53.1
95°	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6	187.8	181.1
97.5°	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7	433.5	420.8
100°	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1	608.8	593.7
102.5°	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1	758.4	745.5
105°	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9	933.1	926.2
107.5°	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9	1024.0	1025.7
110°	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7	1047.3	1054.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0	1032.5	1043.6
115°	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8	982.1	997.5
117.5°	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2	912.5	929.7
120°	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0	865.6	882.3
122.5°	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5	818.7	835.1
125°	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7	756.7	771.8
127.5°	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5	706.9	719.7
130°	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8	675.5	687.3
132.5°	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3	648.7	659.3
135°	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8	610.9	620.0
137.5°	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9	582.9	590.3
140°	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3	560.5	567.4
142.5°	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9	544.8	550.8
145°	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2	521.1	525.7
147.5°	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0	501.4	505.1
150°	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5	490.0	493.0
152.5°	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5	481.0	483.3
155°	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3	470.3	471.8
157.5°	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0	460.9	461.9
160°	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9	456.2	456.8
162.5°	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0	451.8	452.4
165°	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5	445.2	445.7
167.5°	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6	442.3	442.5
170°	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6	442.3	442.3
172.5°	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0	439.9	439.7
175°	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9	436.7	436.7
177.5°	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7	436.1	435.9
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	904.1	904.1
2.5°	965.1	959.3
5°	1241.4	1247.2
7.5°	1671.6	1668.7
10°	2078.6	2104.8
12.5°	2375.1	2380.9
15°	2555.3	2567.0
17.5°	2625.1	2628.0
20°	2628.0	2622.2
22.5°	2596.0	2590.2
25°	2558.3	2555.3
27.5°	2523.4	2526.3
30°	2508.8	2517.6
32.5°	2508.8	2523.4
35°	2514.7	2529.2
37.5°	2511.7	2529.2
40°	2500.1	2520.5
42.5°	2468.1	2482.7
45°	2418.7	2436.2
47.5°	2354.8	2366.4
50°	2273.4	2285.0
52.5°	2171.6	2174.5
55°	2049.5	2061.2
57.5°	1918.7	1921.6
60°	1773.4	1782.1
62.5°	1619.3	1619.3
65°	1456.5	1462.3
67.5°	1287.9	1302.4
70°	1116.4	1119.3
72.5°	947.7	947.7
75°	773.3	776.2
77.5°	607.6	607.6
80°	450.6	453.5
82.5°	311.0	316.9
85°	194.8	194.8
87.5°	90.1	81.4
90°	11.0	11.0
92.5°	44.4	35.6
95°	154.5	127.8
97.5°	370.2	319.4
100°	533.3	472.9
102.5°	693.7	642.0
105°	898.4	870.5
107.5°	1032.5	1039.2
110°	1083.5	1112.5

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1088.1	1132.6
115°	1059.2	1120.9
117.5°	998.1	1066.5
120°	948.7	1015.2
122.5°	900.8	966.4
125°	832.2	892.6
127.5°	770.6	821.6
130°	734.4	781.5
132.5°	701.5	743.6
135°	656.3	692.6
137.5°	620.1	649.9
140°	595.3	623.1
142.5°	574.7	598.6
145°	543.8	561.9
147.5°	520.2	535.2
150°	505.2	517.3
152.5°	492.4	501.7
155°	477.8	483.9
157.5°	466.3	470.5
160°	459.3	461.7
162.5°	454.8	457.1
165°	448.3	450.7
167.5°	443.5	444.6
170°	442.3	442.3
172.5°	438.8	437.9
175°	436.7	436.7
177.5°	434.9	433.8
180°	433.8	433.8

(END OF REPORT)