

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: P938398

Luminaire Tested: SQ4-FB-150U-075D-B35-1D-UNV-W2A-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938398
REPORT IS A COMBINATION OF REPORTS P933630 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-075D-B35-1D-UNV-W2A-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

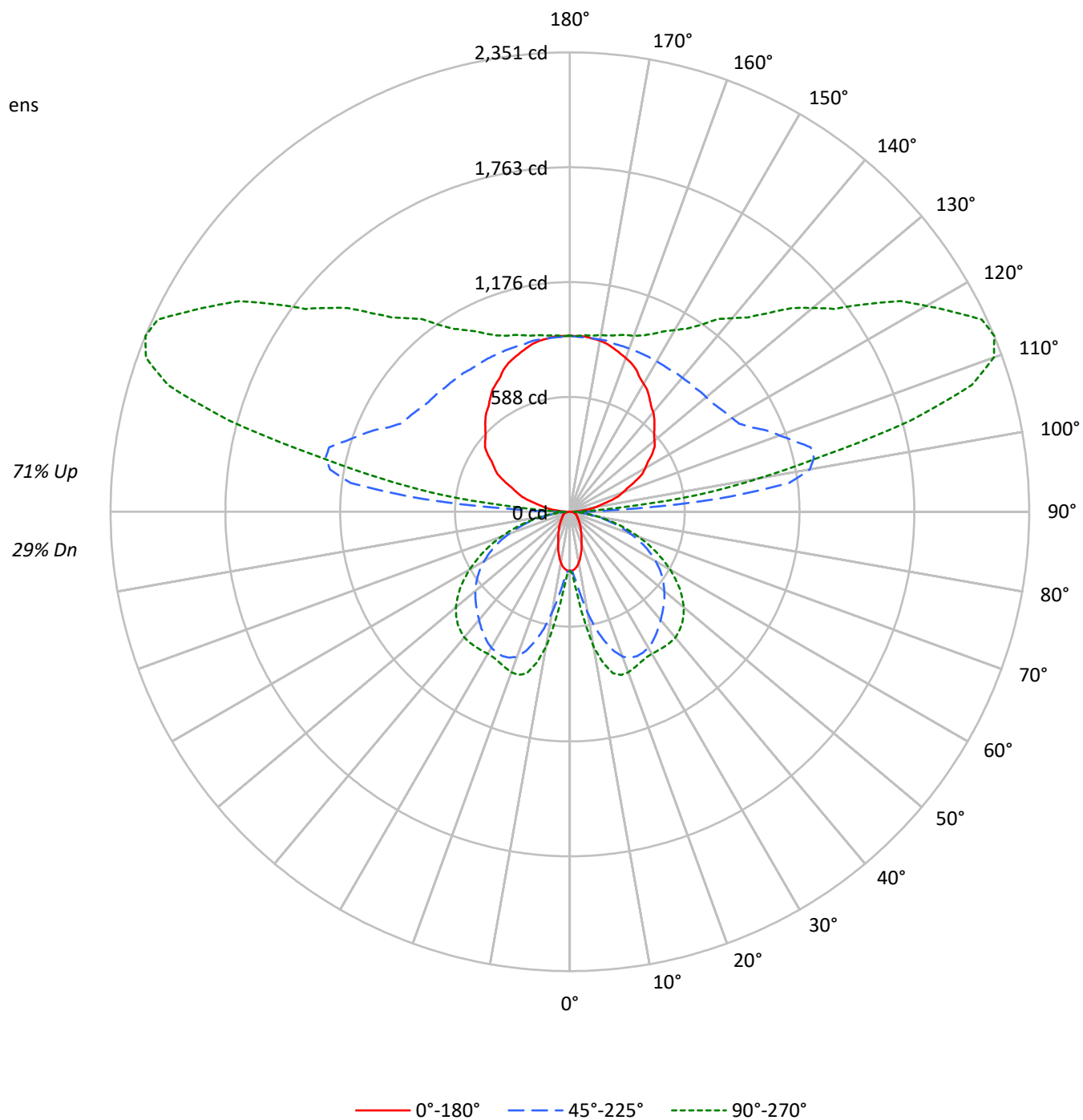
Lumens per Lamp: N/A
Luminaire Lumens: 8172.5 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 63.6
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29		
1	93	88	84	81	83	79	76	73	62	60	58	46	45	43	32	31	30	23		
2	84	77	71	66	75	69	64	59	54	50	47	40	38	36	27	26	25	19		
3	76	67	60	54	68	60	54	49	47	43	39	35	32	30	24	22	21	16		
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	21	19	17	13		
5	64	52	44	38	57	47	40	35	37	32	28	28	24	21	19	17	15	11		
6	58	47	39	33	52	42	35	30	33	28	24	25	21	18	17	15	13	10		
7	54	42	34	28	48	38	31	26	30	25	21	22	19	16	15	13	11	8		
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	12	10	7		
9	46	34	27	22	41	31	24	20	24	20	16	18	15	12	13	10	9	6		
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2797	2797	2797
5°	2729	3230	3759
10°	2473	4704	6232
15°	2099	6142	7524
20°	1707	7112	7668
25°	1422	7437	7513
30°	1198	7478	7499
35°	1058	7348	7692
40°	919	7181	7893
45°	831	7056	7923
50°	761	6943	7792
55°	726	6780	7447
60°	742	6473	6902
65°	767	6011	6152
70°	812	5232	5198
75°	889	4255	4056
80°	950	2940	2734
85°	803	1551	1398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.5
10°-20°	172.8	2.1
20°-30°	302.2	3.7
30°-40°	389.0	4.8
40°-50°	434.5	5.3
50°-60°	416.2	5.1
60°-70°	329.8	4.0
70°-80°	193.9	2.4
80°-90°	57.3	0.7
90°-100°	439.0	5.4
100°-110°	1154.1	14.1
110°-120°	1196.6	14.6
120°-130°	959.8	11.7
130°-140°	753.1	9.2
140°-150°	578.1	7.1
150°-160°	416.3	5.1
160°-170°	254.7	3.1
170°-180°	86.1	1.1
0°-30°	514.0	6.3
0°-40°	903.0	11.0
0°-60°	1753.7	21.5
0°-90°	2334.8	28.6
90°-120°	2789.6	34.1
90°-150°	5080.6	62.2
90°-180°	5838.0	71.4
0°-180°	8172.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	294	315	355	401	416	27
15°	220	406	684	830	856	61
25°	140	460	815	851	852	65
35°	95	440	767	811	843	59
45°	65	351	678	777	812	50
55°	46	223	576	669	687	42
65°	37	118	427	481	487	37
75°	27	73	234	258	259	28
85°	10	22	58	64	65	10
90°	6	17	46	23	23	6
95°	58	227	756	390	265	64
105°	208	315	1276	1937	1807	220
115°	369	448	1022	2039	2327	365
125°	514	576	930	1571	1853	456
135°	612	674	900	1268	1438	474
145°	710	755	889	1082	1166	445
155°	803	825	889	976	1004	369
165°	866	878	889	924	936	244
175°	900	900	895	907	907	85
180°	900	900	900	900	900	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4	301.4
2.5°	301.4	301.4	303.3	304.3	306.2	307.2	309.1	311.0	316.9	317.8	319.8
5°	293.6	297.5	310.1	314.9	328.5	346.9	354.7	367.3	393.4	401.2	406.0
7.5°	282.0	290.7	321.7	329.5	363.4	411.8	432.2	459.3	501.0	521.3	537.8
10°	263.6	282.0	337.2	355.6	410.9	484.5	522.3	560.1	623.1	651.2	661.8
12.5°	243.2	273.3	353.7	378.9	458.3	565.9	611.4	653.1	724.8	762.6	768.4
15°	220.0	260.7	369.2	406.0	508.7	633.7	684.1	735.5	802.3	829.5	836.2
17.5°	199.6	251.0	383.7	422.5	547.5	694.8	746.1	788.8	843.0	861.4	866.3
20°	174.4	235.5	393.4	443.8	588.2	739.3	788.8	821.7	858.5	870.2	872.1
22.5°	156.0	219.0	399.2	451.6	615.3	766.5	808.1	834.3	859.5	863.4	864.3
25°	140.5	200.6	398.3	460.3	638.6	783.0	814.9	834.3	848.8	850.8	850.8
27.5°	126.0	180.2	394.4	462.2	656.0	786.8	812.0	825.6	832.4	836.2	836.2
30°	113.4	160.9	384.7	458.3	663.8	783.0	803.3	810.1	816.9	822.7	825.6
32.5°	103.7	142.4	370.2	450.6	664.7	773.3	787.8	791.7	801.4	814.9	819.8
35°	95.0	124.0	353.7	439.9	658.9	757.8	767.4	771.3	790.7	811.1	817.8
37.5°	86.2	110.5	332.4	421.5	650.2	739.3	746.1	752.9	783.0	807.2	814.9
40°	77.5	98.8	307.2	401.2	636.6	717.1	722.9	733.5	773.3	801.4	809.1
42.5°	70.7	89.1	280.0	379.8	619.2	691.9	700.6	716.1	761.6	791.7	800.4
45°	64.9	79.5	251.0	350.8	596.9	665.7	678.3	699.6	748.1	777.1	784.9
47.5°	59.1	72.7	220.9	320.7	572.7	639.5	656.0	680.2	729.7	757.8	764.5
50°	54.3	65.9	190.9	288.8	546.5	611.4	630.8	656.0	706.4	732.6	741.3
52.5°	50.4	60.1	162.8	256.8	516.5	582.4	604.7	630.8	678.3	703.5	709.3
55°	46.5	55.2	138.6	222.9	485.5	551.4	575.6	600.8	647.3	668.6	672.5
57.5°	44.6	51.4	118.2	190.9	452.5	516.5	543.6	566.9	610.5	626.9	630.8
60°	41.7	48.4	102.7	163.8	416.7	483.5	506.8	530.0	566.9	580.4	583.3
62.5°	38.8	46.5	91.1	137.6	379.8	444.8	468.0	489.3	520.4	530.0	533.9
65°	36.8	44.6	82.4	118.2	342.1	404.1	427.3	445.7	470.9	480.6	482.6
67.5°	34.9	42.6	75.6	101.7	304.3	363.4	380.8	398.3	417.6	427.3	428.3
70°	32.0	40.7	69.8	90.1	265.5	316.9	331.4	349.8	365.3	370.2	373.1
72.5°	30.0	37.8	65.9	81.4	225.8	272.3	285.9	296.5	310.1	314.9	314.9
75°	27.1	33.9	62.0	72.7	185.1	222.9	234.5	245.2	255.8	257.8	254.8
77.5°	24.2	30.0	53.3	61.0	144.4	176.4	186.0	191.9	200.6	202.5	203.5
80°	20.3	26.2	41.7	47.5	104.7	129.8	136.6	141.5	149.2	149.2	151.2
82.5°	15.5	20.3	30.0	33.9	70.7	89.1	95.0	97.9	102.7	102.7	102.7
85°	9.7	12.6	19.4	22.3	42.6	54.3	58.1	59.1	63.0	64.0	64.0
87.5°	4.8	6.8	12.6	13.6	22.3	28.1	28.1	30.0	30.0	29.1	28.1
90°	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6	23.0	23.0
92.5°	24.1	65.2	106.4	116.7	164.0	227.0	258.6	226.6	162.8	114.8	110.3
95°	58.0	133.2	208.4	227.2	403.5	638.6	756.1	674.7	511.9	389.8	376.0
97.5°	100.3	166.7	233.0	249.6	543.5	935.5	1131.4	1080.0	977.0	899.9	873.6
100°	132.9	193.1	253.3	268.3	594.5	1029.4	1246.8	1250.6	1258.1	1263.8	1232.4
102.5°	160.8	217.0	273.1	287.1	617.9	1058.9	1279.5	1345.0	1476.1	1574.4	1547.6
105°	207.9	255.5	303.0	314.9	635.2	1062.2	1275.8	1422.7	1716.6	1937.0	1922.6
107.5°	256.3	300.6	345.0	356.0	638.5	1015.0	1203.3	1408.2	1818.1	2125.6	2129.1
110°	288.9	328.9	369.0	379.0	633.6	973.1	1142.8	1372.0	1830.2	2174.0	2189.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	320.9	359.1	397.3	406.8	633.8	936.5	1087.9	1322.4	1791.4	2143.1	2166.2
115°	369.3	404.5	439.6	448.5	639.6	894.6	1022.0	1247.9	1699.7	2038.6	2070.7
117.5°	417.1	449.0	481.0	489.0	651.6	868.3	976.7	1180.5	1588.3	1894.1	1929.7
120°	444.8	474.9	504.9	512.5	661.1	859.4	958.5	1144.8	1517.4	1796.8	1831.3
122.5°	472.0	502.3	532.8	540.3	675.1	854.9	944.7	1112.4	1447.9	1699.5	1733.5
125°	513.8	541.4	569.1	576.0	693.8	851.0	929.6	1072.0	1357.0	1570.7	1602.1
127.5°	547.6	575.5	603.4	610.4	712.5	848.7	916.9	1039.3	1283.9	1467.5	1493.9
130°	565.7	595.7	625.8	633.3	726.3	850.1	912.0	1020.9	1238.8	1402.1	1426.6
132.5°	584.4	614.5	644.6	652.1	737.3	851.0	907.8	1005.2	1200.3	1346.5	1368.4
135°	612.2	639.6	667.0	673.8	749.4	850.1	900.5	982.2	1145.5	1267.9	1286.8
137.5°	640.6	667.7	694.9	701.7	767.5	855.4	899.3	968.3	1106.4	1210.0	1225.4
140°	664.2	689.2	714.2	720.5	778.7	856.3	895.1	954.7	1073.9	1163.4	1177.8
142.5°	682.4	705.4	728.5	734.3	787.9	859.3	895.1	947.5	1052.2	1130.8	1143.2
145°	710.2	730.3	750.4	755.4	800.0	859.4	889.1	931.9	1017.5	1081.8	1091.2
147.5°	737.9	757.6	777.1	782.1	817.7	865.3	889.1	922.8	990.1	1040.7	1048.5
150°	756.1	773.8	791.5	795.9	826.9	868.3	889.1	917.5	974.4	1017.2	1023.5
152.5°	774.8	788.3	801.7	805.0	833.0	870.4	889.1	913.4	962.0	998.5	1003.2
155°	802.6	812.6	822.5	825.0	846.3	874.8	889.1	908.4	947.1	976.1	979.3
157.5°	823.2	832.9	842.4	844.9	859.6	879.3	889.1	904.1	934.1	956.7	958.9
160°	837.0	844.6	852.1	854.0	865.7	881.3	889.1	901.9	927.7	947.0	948.3
162.5°	851.0	856.6	862.2	863.7	872.1	883.4	889.1	899.9	921.7	938.0	939.2
165°	866.1	871.1	876.3	877.5	881.4	886.5	889.1	896.8	912.4	924.0	925.3
167.5°	879.9	882.4	884.8	885.4	888.6	892.9	895.1	900.2	910.4	918.0	918.6
170°	889.1	891.5	893.9	894.5	894.7	895.0	895.1	900.2	910.4	918.0	918.0
172.5°	893.9	894.4	895.0	895.1	895.1	895.1	895.1	899.1	907.2	913.2	912.7
175°	900.5	900.5	900.5	900.5	898.7	896.2	895.1	897.6	902.7	906.6	906.6
177.5°	900.5	900.5	900.5	900.5	899.1	897.3	896.3	898.4	902.3	905.3	904.8
180°	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5	900.5

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	301.4	301.4
2.5°	321.7	319.8
5°	413.8	415.7
7.5°	557.2	556.2
10°	692.8	701.6
12.5°	791.7	793.6
15°	851.8	855.6
17.5°	875.0	876.0
20°	876.0	874.0
22.5°	865.3	863.4
25°	852.7	851.8
27.5°	841.1	842.1
30°	836.2	839.2
32.5°	836.2	841.1
35°	838.2	843.0
37.5°	837.2	843.0
40°	833.3	840.1
42.5°	822.7	827.5
45°	806.2	812.0
47.5°	784.9	788.8
50°	757.8	761.6
52.5°	723.8	724.8
55°	683.1	687.0
57.5°	639.5	640.5
60°	591.1	594.0
62.5°	539.7	539.7
65°	485.5	487.4
67.5°	429.3	434.1
70°	372.1	373.1
72.5°	315.9	315.9
75°	257.8	258.7
77.5°	202.5	202.5
80°	150.2	151.2
82.5°	103.7	105.6
85°	64.9	64.9
87.5°	30.0	27.1
90°	23.0	23.0
92.5°	92.0	73.7
95°	320.6	265.3
97.5°	768.3	663.0
100°	1107.0	981.5
102.5°	1440.1	1332.7
105°	1864.8	1807.1
107.5°	2143.0	2157.0
110°	2249.1	2309.3

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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2258.6	2351.0
115°	2198.8	2326.9
117.5°	2071.7	2213.8
120°	1969.4	2107.5
122.5°	1869.8	2005.9
125°	1727.5	1853.0
127.5°	1599.7	1705.5
130°	1524.3	1622.1
132.5°	1455.9	1543.5
135°	1362.3	1437.8
137.5°	1287.2	1348.9
140°	1235.6	1293.3
142.5°	1192.9	1242.5
145°	1128.9	1166.5
147.5°	1079.7	1110.9
150°	1048.7	1073.9
152.5°	1022.3	1041.3
155°	991.9	1004.5
157.5°	967.7	976.7
160°	953.4	958.5
162.5°	944.0	948.8
165°	930.4	935.6
167.5°	920.7	922.9
170°	918.0	918.0
172.5°	910.9	909.0
175°	906.6	906.6
177.5°	902.6	900.5
180°	900.5	900.5

(END OF REPORT)