

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

(formerly Eaton)

Brand: CORELITE

Report Number: P520135

Luminaire Tested: **SQ4-F-0U-100D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520135
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

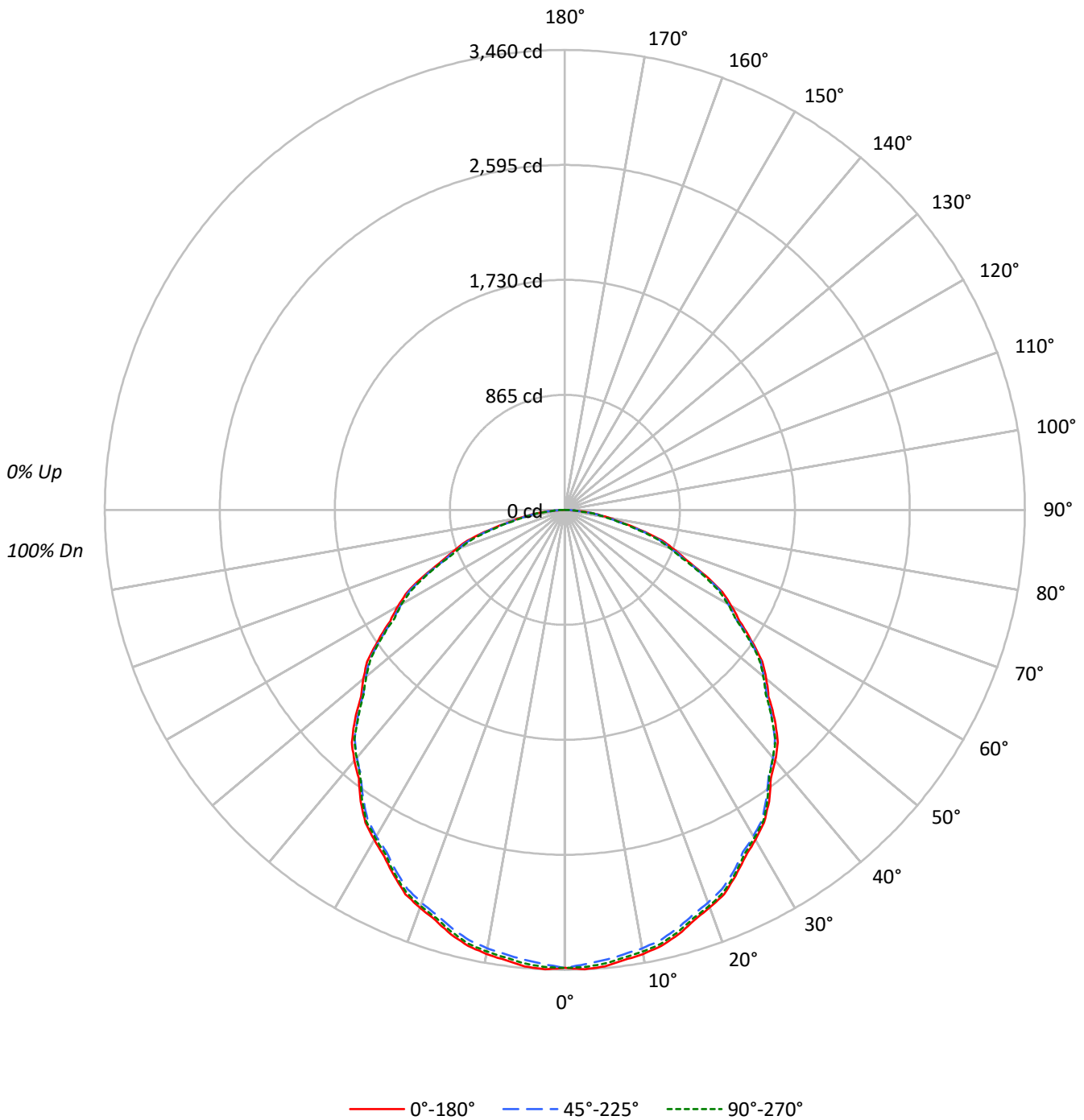
Lumens per Lamp: N/A
Luminaire Lumens: 9399.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 104.1
Input Voltage (V): 120
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



TEST NUMBER: P520135
CATALOG NUMBER: SQ4-F-0U-100D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P520135

CATALOG NUMBER: SQ4-F-0U-100D-930-1D-UNV-STD-W-12

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10599	10599	10599
5°	10647	10501	10581
10°	10592	10460	10541
15°	10528	10385	10468
20°	10420	10296	10381
25°	10306	10185	10266
30°	10180	10071	10122
35°	10053	9928	9982
40°	9885	9772	9781
45°	9711	9578	9547
50°	9461	9348	9325
55°	9182	9081	9017
60°	8904	8743	8715
65°	8468	8280	8210
70°	7870	7678	7529
75°	7026	6802	6661
80°	5781	5572	5320
85°	3423	3754	3839



TEST NUMBER: P520135

CATALOG NUMBER: SQ4-F-0U-100D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	3.5
10°-20°	926.3	9.9
20°-30°	1391.0	14.8
30°-40°	1660.1	17.7
40°-50°	1701.6	18.1
50°-60°	1515.2	16.1
60°-70°	1129.5	12.0
70°-80°	611.5	6.5
80°-90°	139.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2642.6	28.1
0°-40°	4302.6	45.8
0°-60°	7519.4	80.0
0°-90°	9399.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9399.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3446	3446	3446	3446	3446	
5°	3449	3442	3401	3432	3427	327
15°	3307	3295	3262	3288	3288	932
25°	3037	3030	3002	3018	3025	1399
35°	2678	2666	2644	2650	2659	1671
45°	2233	2221	2202	2190	2195	1718
55°	1712	1715	1694	1677	1682	1533
65°	1164	1159	1138	1126	1128	1151
75°	591	584	572	561	561	630
85°	97	106	106	109	109	138
90°	0	0	0	0	0	



TEST NUMBER: P520135

CATALOG NUMBER: SQ4-F-0U-100D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	3459.6	3452.1	3421.7	3446.3	3442.5
5°	3448.7	3441.7	3401.4	3432.0	3427.4
7.5°	3416.6	3409.6	3373.9	3402.2	3398.0
10°	3391.9	3384.9	3349.4	3377.7	3375.3
12.5°	3359.8	3352.8	3317.2	3345.5	3343.2
15°	3306.8	3295.2	3261.8	3287.8	3287.8
17.5°	3236.7	3228.0	3197.0	3218.8	3219.3
20°	3183.8	3176.9	3146.0	3169.6	3171.9
22.5°	3130.8	3123.9	3089.2	3111.0	3115.1
25°	3037.1	3030.1	3001.6	3018.3	3025.3
27.5°	2940.6	2930.5	2902.3	2917.1	2922.1
30°	2866.8	2862.2	2836.0	2843.4	2850.3
32.5°	2789.3	2784.6	2762.2	2765.9	2778.4
35°	2677.6	2666.0	2644.5	2649.5	2658.7
37.5°	2545.6	2540.1	2519.1	2516.5	2525.2
40°	2462.3	2453.1	2434.0	2429.4	2436.3
42.5°	2371.5	2362.2	2339.3	2334.8	2343.6
45°	2232.9	2221.3	2202.1	2190.4	2195.1
47.5°	2077.8	2077.8	2057.8	2044.3	2051.2
50°	1977.5	1977.5	1953.8	1942.1	1949.0
52.5°	1873.3	1875.2	1849.7	1843.5	1841.1
55°	1712.5	1714.8	1693.6	1677.2	1681.7
57.5°	1557.4	1552.2	1527.6	1516.8	1519.0
60°	1447.6	1440.7	1421.5	1405.3	1416.9
62.5°	1335.9	1332.8	1313.7	1295.2	1293.8
65°	1163.7	1159.2	1137.8	1126.0	1128.2
67.5°	992.5	987.0	967.4	950.5	956.5
70°	875.2	875.2	853.9	844.3	837.3
72.5°	767.3	758.1	742.2	728.8	723.8
75°	591.3	584.4	572.4	560.6	560.6
77.5°	430.5	424.5	416.7	408.7	406.3
80°	326.4	324.1	314.6	312.0	300.4
82.5°	229.9	229.5	223.7	217.6	217.2
85°	97.0	106.2	106.4	108.8	108.8
87.5°	17.0	28.1	26.5	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)