

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: P519847

Luminaire Tested: **SQ4-F-025U-100D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519847
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

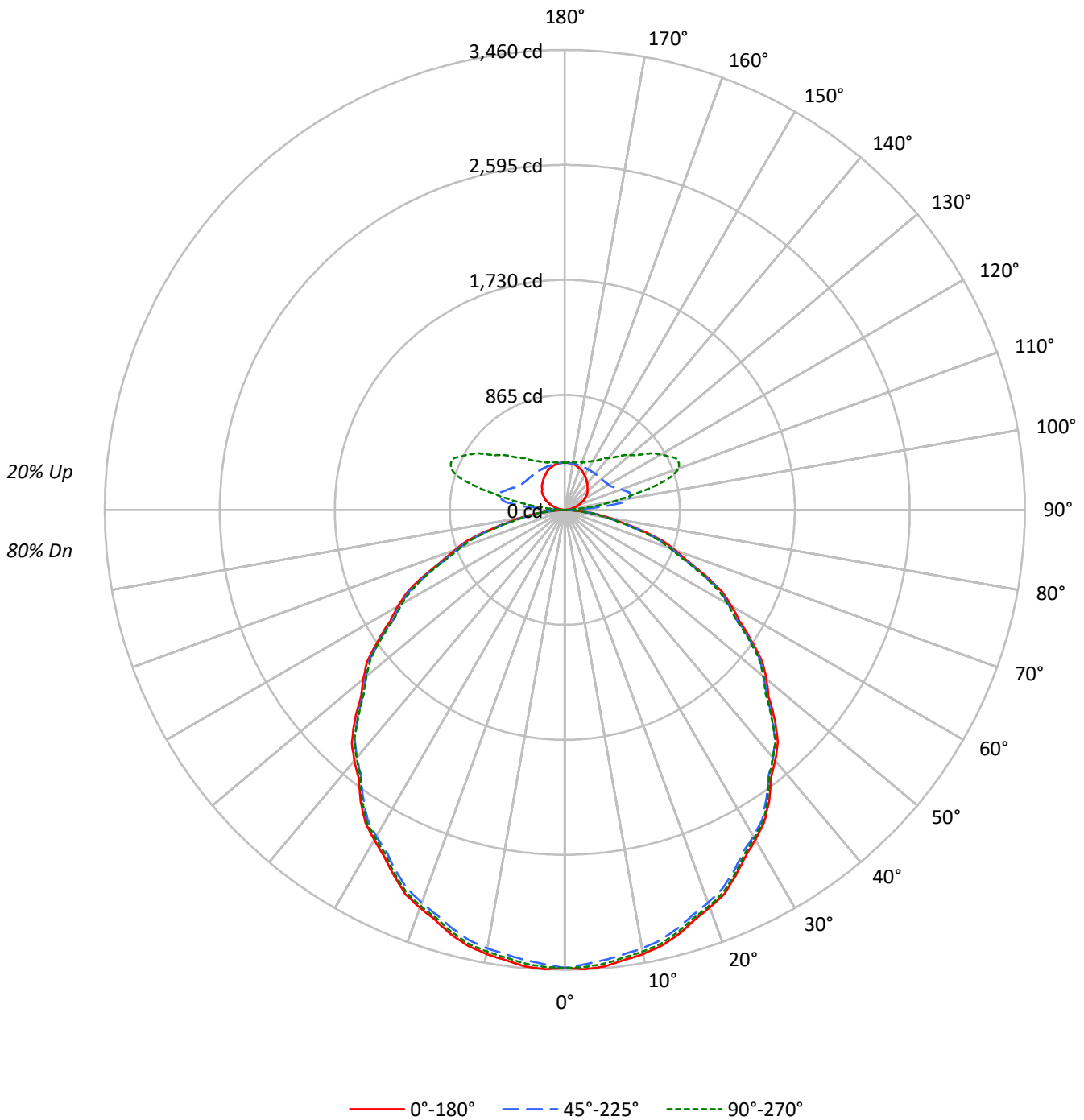
Lumens per Lamp: N/A
Luminaire Lumens: 11707.5 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 122
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



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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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	73	71	68
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	48
4	79	68	59	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	50	44	54	47	42	50	44	40	46	42	38	35
6	67	54	46	40	64	52	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	30	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	32	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	48	37	29	25	34	28	24	32	27	23	30	25	22	20

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	2.8
10°-20°	926.3	7.9
20°-30°	1391.0	11.9
30°-40°	1660.1	14.2
40°-50°	1701.6	14.5
50°-60°	1515.2	12.9
60°-70°	1129.5	9.6
70°-80°	611.5	5.2
80°-90°	141.1	1.2
90°-100°	173.4	1.5
100°-110°	455.8	3.9
110°-120°	472.7	4.0
120°-130°	379.1	3.2
130°-140°	297.5	2.5
140°-150°	228.3	2.0
150°-160°	164.5	1.4
160°-170°	100.6	0.9
170°-180°	34.0	0.3
0°-30°	2642.6	22.6
0°-40°	4302.6	36.8
0°-60°	7519.4	64.2
0°-90°	9401.6	80.3
90°-120°	1101.9	9.4
90°-150°	2006.8	17.1
90°-180°	2306.0	19.7
0°-180°	11707.5	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	136
90°	2	7	18	9	9	4
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	620	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	

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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°	17.5	29.5	30.3	24.6	24.6
90°	2.3	6.8	18.3	9.1	9.1
92.5°	9.6	46.2	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.1	387.7
102.5°	63.4	113.4	505.4	621.8	526.4
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.2	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.6	912.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.2	874.3
120°	175.6	202.4	378.5	709.7	832.4
122.5°	186.6	213.3	373.1	671.4	792.2
125°	202.9	227.5	367.1	620.5	732.1
127.5°	216.2	241.2	362.2	579.5	673.7
130°	223.5	250.2	360.4	553.8	640.8
132.5°	230.7	257.5	358.5	531.7	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.8	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.7
145°	280.5	298.3	351.2	427.2	460.6
147.5°	291.4	308.8	351.2	411.1	438.7
150°	298.7	314.4	351.2	401.8	424.2
152.5°	306.1	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.9	385.9
160°	330.6	337.3	351.2	374.1	378.5
162.5°	336.2	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	364.9	369.4
167.5°	347.6	349.7	353.5	362.7	364.5
170°	351.2	353.5	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	358.9
175°	355.8	355.8	353.5	358.1	358.1
177.5°	355.8	355.8	354.0	357.6	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)