

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521452

Luminaire Tested: **SQ4-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521452
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

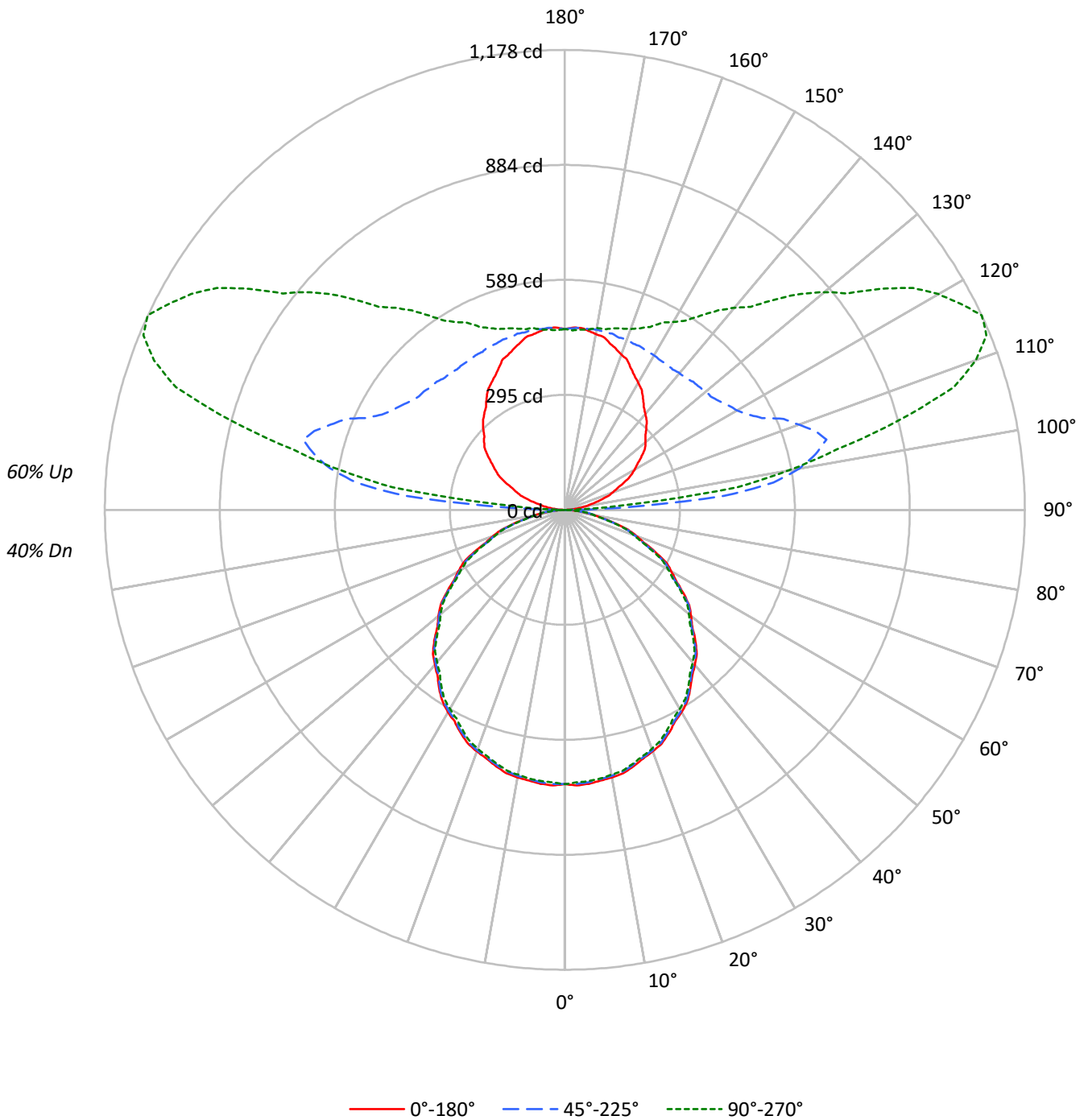
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (A_{in}): 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	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	95	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33				
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28				
3	79	70	62	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23				
4	72	61	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	26	23	21	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	40	33	28	34	28	24	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	30	25	21	25	21	18	19	16	14	12				
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6481	6481	6481
5°	6525	6489	6461
10°	6518	6481	6453
15°	6495	6458	6429
20°	6464	6435	6397
25°	6423	6383	6323
30°	6376	6335	6272
35°	6311	6277	6210
40°	6240	6193	6133
45°	6170	6106	6055
50°	6056	6014	5958
55°	5950	5887	5825
60°	5813	5722	5648
65°	5591	5440	5377
70°	5241	5109	5055
75°	4755	4616	4549
80°	3964	4017	3910
85°	2805	3324	3324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.3
10°-20°	190.4	3.8
20°-30°	287.8	5.8
30°-40°	346.6	6.9
40°-50°	359.9	7.2
50°-60°	326.5	6.5
60°-70°	247.6	5.0
70°-80°	138.1	2.8
80°-90°	36.5	0.7
90°-100°	238.8	4.8
100°-110°	577.2	11.5
110°-120°	615.6	12.3
120°-130°	498.6	10.0
130°-140°	386.0	7.7
140°-150°	294.5	5.9
150°-160°	213.2	4.3
160°-170°	131.3	2.6
170°-180°	44.5	0.9
0°-30°	544.7	10.9
0°-40°	891.3	17.8
0°-60°	1577.7	31.6
0°-90°	2000.0	40.0
90°-120°	1431.6	28.6
90°-150°	2610.7	52.2
90°-180°	3000.0	60.0
0°-180°	4999.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	699	701	699	698	67
15°	680	672	676	674	673	192
25°	631	624	627	621	621	291
35°	560	554	557	550	551	350
45°	473	468	468	463	464	364
55°	370	369	366	362	362	330
65°	256	253	249	246	246	253
75°	133	132	130	128	128	141
85°	26	29	31	31	31	33
90°	0	0	0	0	0	2
95°	24	120	409	266	186	26
105°	92	159	694	898	886	97
115°	169	216	557	1057	1178	167
125°	240	277	484	840	987	215
135°	295	330	464	663	762	228
145°	349	375	455	563	607	218
155°	400	418	461	499	517	185
165°	442	449	467	474	481	125
175°	468	466	468	464	463	44
180°	463	463	463	463	463	



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CATALOG NUMBER: SQ4-F-075U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.5	702.5	702.5	702.5	702.5
2.5°	706.5	701.1	702.5	701.7	698.6
5°	704.5	698.8	700.6	698.6	697.6
7.5°	699.6	693.7	695.7	693.7	694.3
10°	695.7	689.0	691.8	689.8	688.8
12.5°	691.0	683.5	686.3	683.5	684.1
15°	680.0	672.3	676.1	674.1	673.1
17.5°	667.8	661.1	664.9	661.7	661.7
20°	658.4	651.7	655.4	651.5	651.5
22.5°	648.2	640.7	644.5	639.7	639.7
25°	630.9	624.2	627.0	621.1	621.1
27.5°	611.1	604.2	608.0	602.1	602.1
30°	598.5	590.9	594.6	588.7	588.7
32.5°	582.8	577.5	579.7	573.8	573.8
35°	560.3	554.5	557.3	550.5	551.4
37.5°	535.3	531.3	531.4	525.4	526.5
40°	518.1	513.3	514.2	507.3	509.2
42.5°	500.0	496.0	496.1	490.8	492.0
45°	472.9	468.1	468.0	463.2	464.1
47.5°	442.3	439.8	439.4	433.7	434.7
50°	421.9	421.0	419.0	414.1	415.1
52.5°	401.5	400.6	398.6	393.7	394.6
55°	369.9	369.0	366.0	362.1	362.1
57.5°	336.9	336.0	332.8	328.9	328.9
60°	315.0	314.0	310.1	306.1	306.1
62.5°	292.2	290.5	286.5	283.4	283.4
65°	256.1	253.2	249.2	246.3	246.3
67.5°	218.6	216.7	213.7	211.0	211.0
70°	194.3	192.4	189.4	187.4	187.4
72.5°	169.9	168.0	165.0	163.1	163.1
75°	133.4	131.5	129.5	127.6	127.6
77.5°	97.3	96.8	96.7	94.8	94.8
80°	74.6	75.5	75.6	73.6	73.6
82.5°	53.4	55.1	55.9	55.5	55.5
85°	26.5	29.4	31.4	31.4	31.4
87.5°	7.8	10.2	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	64.6	152.3	74.0	50.2
95°	23.5	119.5	409.2	266.1	186.4
97.5°	41.8	132.4	538.9	519.2	445.7
100°	55.9	140.4	610.3	644.3	583.8
102.5°	69.3	147.6	657.4	748.4	712.6
105°	92.2	159.4	693.7	897.5	886.0
107.5°	114.8	173.3	672.3	1017.2	1044.2
110°	130.5	185.2	637.8	1068.7	1119.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	197.0	607.2	1081.3	1168.2
115°	168.8	215.8	557.3	1056.6	1178.4
117.5°	191.1	235.5	528.1	999.8	1142.5
120°	206.1	247.3	509.2	955.2	1104.8
122.5°	221.8	259.9	497.5	909.6	1057.0
125°	240.4	276.9	483.7	840.3	987.1
127.5°	258.8	293.2	474.1	781.6	910.6
130°	269.8	303.4	471.0	740.8	867.4
132.5°	280.0	315.2	466.3	711.3	818.7
135°	295.3	329.9	464.1	662.6	762.4
137.5°	309.9	344.6	457.2	629.7	704.9
140°	320.9	352.5	457.2	606.0	675.1
142.5°	331.8	363.5	453.3	585.3	643.7
145°	349.3	375.2	455.3	563.2	607.4
147.5°	365.6	390.7	454.1	537.7	574.2
150°	375.8	397.9	457.2	526.6	555.4
152.5°	386.8	408.1	456.5	514.7	540.5
155°	400.3	417.6	461.2	498.9	517.1
157.5°	416.6	431.4	460.2	492.8	503.6
160°	422.9	435.4	464.1	484.9	492.6
162.5°	433.1	444.0	462.5	482.5	487.1
165°	442.5	449.2	467.1	474.1	480.8
167.5°	454.1	458.5	465.9	473.5	473.7
170°	457.2	460.1	469.0	468.1	472.9
172.5°	462.7	464.9	466.7	468.8	465.9
175°	468.0	466.1	468.0	464.1	463.1
177.5°	467.1	467.1	465.5	463.8	460.0
180°	463.1	463.1	463.1	463.1	463.1

(END OF REPORT)