

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: P563478

Luminaire Tested: **SQ4-PP3-0U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563478
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

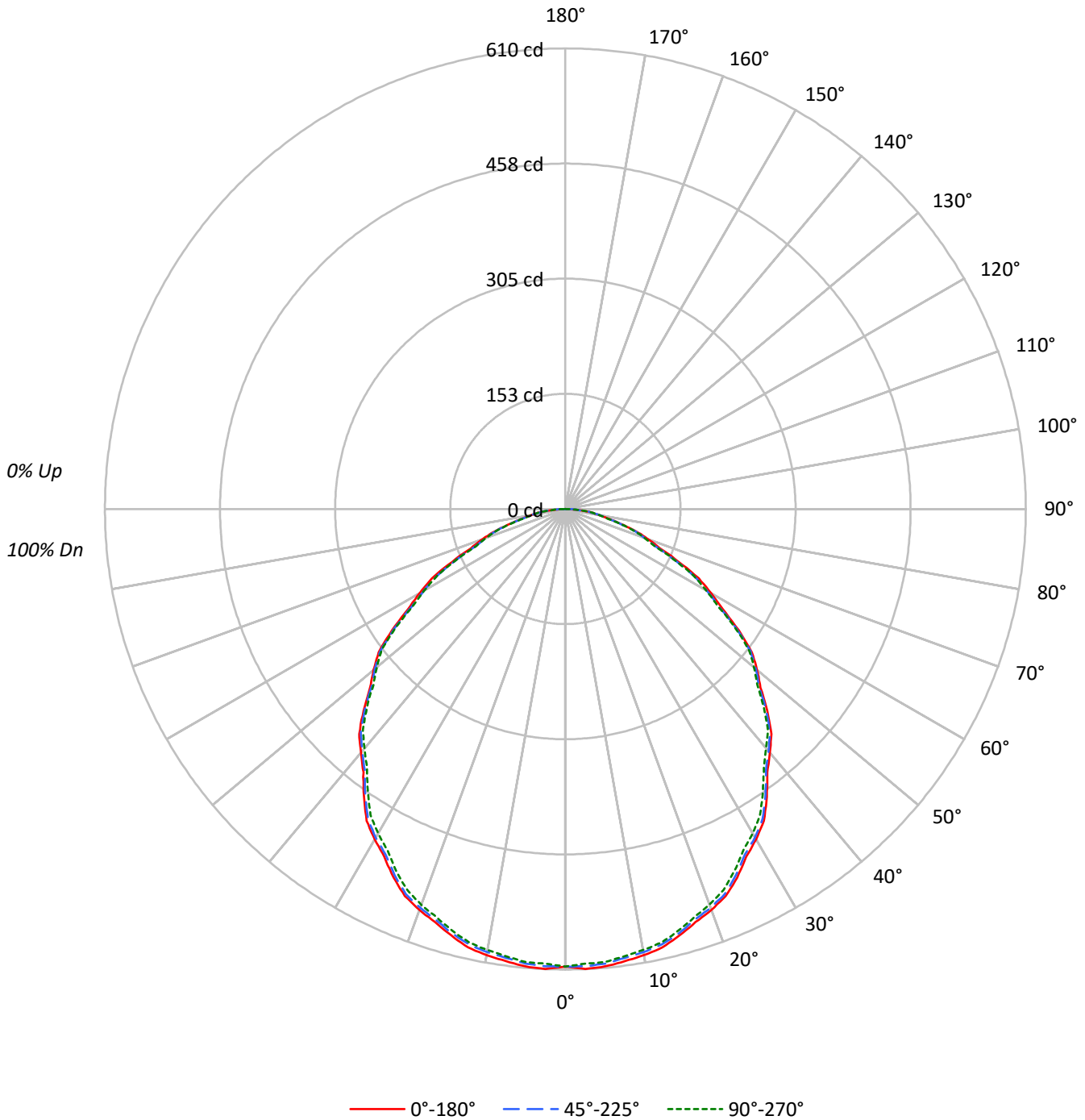
Lumens per Lamp: N/A
Luminaire Lumens: 1551.2 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
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: P563478
CATALOG NUMBER: SQ4-PP3-0U-050D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563478

CATALOG NUMBER: SQ4-PP3-0U-050D-930-1D-UNV-STD-W-4

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5599	5578
10°	5623	5584	5558
15°	5586	5555	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5042	4984
45°	4935	4899	4851
50°	4758	4727	4681
55°	4512	4451	4417
60°	4108	3989	3969
65°	3617	3467	3456
70°	3124	2994	2994
75°	2688	2652	2613
80°	2370	2396	2343
85°	1853	2022	2022



TEST NUMBER: P563478

CATALOG NUMBER: SQ4-PP3-0U-050D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.7
10°-20°	163.6	10.5
20°-30°	245.1	15.8
30°-40°	287.5	18.5
40°-50°	288.4	18.6
50°-60°	246.0	15.9
60°-70°	160.4	10.3
70°-80°	80.5	5.2
80°-90°	22.3	1.4
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°	466.1	30.0
0°-40°	753.5	48.6
0°-60°	1288.0	83.0
0°-90°	1551.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	608	602	604	602	602	58
15°	585	579	582	580	578	165
25°	539	532	535	530	530	248
35°	465	461	462	457	456	291
45°	378	376	376	372	372	291
55°	280	279	277	275	275	249
65°	166	163	159	158	158	165
75°	75	75	74	74	73	82
85°	18	19	19	19	19	21
90°	0	0	0	0	0	



TEST NUMBER: P563478

CATALOG NUMBER: SQ4-PP3-OU-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.1	606.1	606.1	606.1	606.1
2.5°	609.9	604.9	606.1	605.2	602.7
5°	608.2	602.5	604.5	602.3	602.3
7.5°	604.0	597.8	599.8	597.7	597.6
10°	600.2	594.0	596.0	593.8	593.3
12.5°	594.7	588.5	590.9	588.3	588.2
15°	584.8	579.1	581.6	579.5	578.4
17.5°	573.7	567.4	570.5	567.5	567.1
20°	565.2	558.9	562.0	557.7	557.7
22.5°	555.0	548.7	552.2	546.7	546.7
25°	538.6	532.4	534.9	530.1	529.6
27.5°	519.2	513.0	515.7	510.2	510.1
30°	505.1	499.4	502.5	496.6	496.1
32.5°	489.8	484.5	486.8	480.9	480.4
35°	465.3	460.6	462.1	456.8	456.3
37.5°	439.5	434.7	436.4	431.8	431.6
40°	421.2	418.1	418.6	414.8	413.8
42.5°	404.2	400.7	401.1	397.4	397.2
45°	378.2	375.6	375.5	371.8	371.8
47.5°	350.6	348.6	348.0	344.9	344.8
50°	331.5	329.9	329.3	326.7	326.1
52.5°	311.5	310.8	308.9	306.7	306.6
55°	280.5	279.4	276.7	275.1	274.6
57.5°	246.8	244.7	241.7	239.4	239.8
60°	222.6	220.5	216.2	215.1	215.1
62.5°	199.2	196.7	192.4	190.9	191.8
65°	165.7	162.6	158.8	157.8	158.3
67.5°	135.3	132.5	128.4	128.4	128.0
70°	115.8	114.2	111.0	111.0	111.0
72.5°	98.4	97.6	95.3	95.3	94.9
75°	75.4	75.4	74.4	73.8	73.3
77.5°	56.5	56.7	56.2	55.6	54.7
80°	44.6	45.7	45.1	44.6	44.1
82.5°	33.6	34.6	34.5	33.6	33.5
85°	17.5	19.1	19.1	19.1	19.1
87.5°	4.7	6.3	6.8	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)