

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: P564822

Luminaire Tested: **SQ4-PW1-0U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564822
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

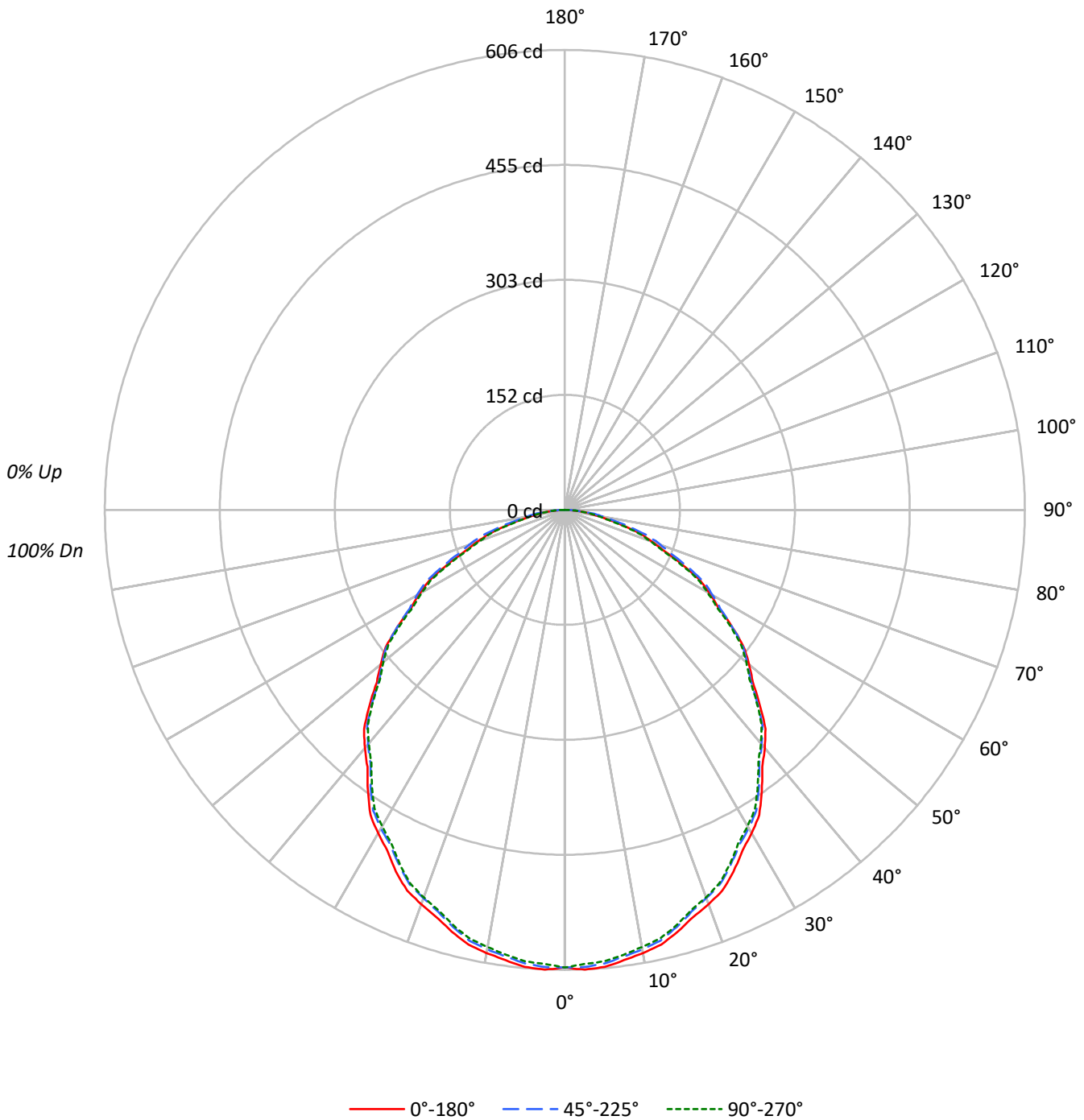
Lumens per Lamp: N/A
Luminaire Lumens: 1534.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5481
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5129
35°	5092	5021	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4546	4507	4477
55°	4333	4333	4264
60°	4069	4146	4000
65°	3722	3908	3631
70°	3283	3599	3197
75°	2802	3219	2727
80°	2173	2710	2200
85°	1408	2085	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.7
10°-20°	160.3	10.4
20°-30°	237.8	15.5
30°-40°	278.3	18.1
40°-50°	277.0	18.1
50°-60°	239.2	15.6
60°-70°	172.2	11.2
70°-80°	90.3	5.9
80°-90°	22.4	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°	454.9	29.7
0°-40°	733.2	47.8
0°-60°	1249.4	81.4
0°-90°	1534.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	605	598	600	598	597	57
15°	575	568	569	568	567	162
25°	526	517	516	513	515	242
35°	452	446	446	442	443	283
45°	363	360	359	358	357	280
55°	269	269	269	266	265	240
65°	170	176	179	172	166	169
75°	79	86	90	84	76	84
85°	13	17	20	19	18	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	606.4	601.4	603.0	601.7	598.8
5°	604.6	597.9	599.8	598.2	597.2
7.5°	598.5	592.2	593.7	592.0	591.3
10°	592.9	586.7	588.1	586.0	585.0
12.5°	586.6	579.9	581.3	579.2	578.6
15°	575.4	568.1	569.0	567.9	566.9
17.5°	562.4	555.1	555.2	553.5	553.3
20°	553.1	545.3	544.6	542.5	543.5
22.5°	542.9	534.7	534.0	531.0	532.5
25°	526.0	517.2	516.4	513.3	514.8
27.5°	506.4	497.7	497.7	493.3	495.0
30°	492.0	483.7	484.5	479.3	481.4
32.5°	476.7	469.2	469.7	464.4	466.5
35°	452.1	445.9	445.8	441.5	443.1
37.5°	427.1	421.6	420.7	418.2	418.7
40°	409.6	405.0	403.3	401.7	401.7
42.5°	391.4	387.1	385.4	384.2	383.8
45°	363.4	360.3	358.6	357.6	357.0
47.5°	335.8	332.9	331.4	330.7	330.1
50°	316.7	314.6	314.0	312.4	311.9
52.5°	297.5	296.3	295.7	293.7	293.2
55°	269.4	268.8	269.4	265.6	265.1
57.5°	240.0	240.9	242.6	237.6	236.3
60°	220.5	222.6	224.7	218.8	216.8
62.5°	200.5	203.8	206.9	200.1	197.2
65°	170.5	175.7	179.0	172.0	166.3
67.5°	141.6	148.1	152.1	144.5	138.0
70°	121.7	128.9	133.4	125.8	118.5
72.5°	104.2	112.3	115.9	108.8	101.5
75°	78.6	85.9	90.3	84.3	76.5
77.5°	55.8	62.6	66.3	61.1	54.6
80°	40.9	48.2	51.0	46.6	41.4
82.5°	29.0	35.0	37.0	34.3	30.8
85°	13.3	17.4	19.7	18.6	17.5
87.5°	3.4	6.3	8.1	8.1	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)