

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: P518600

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518600  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-050D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

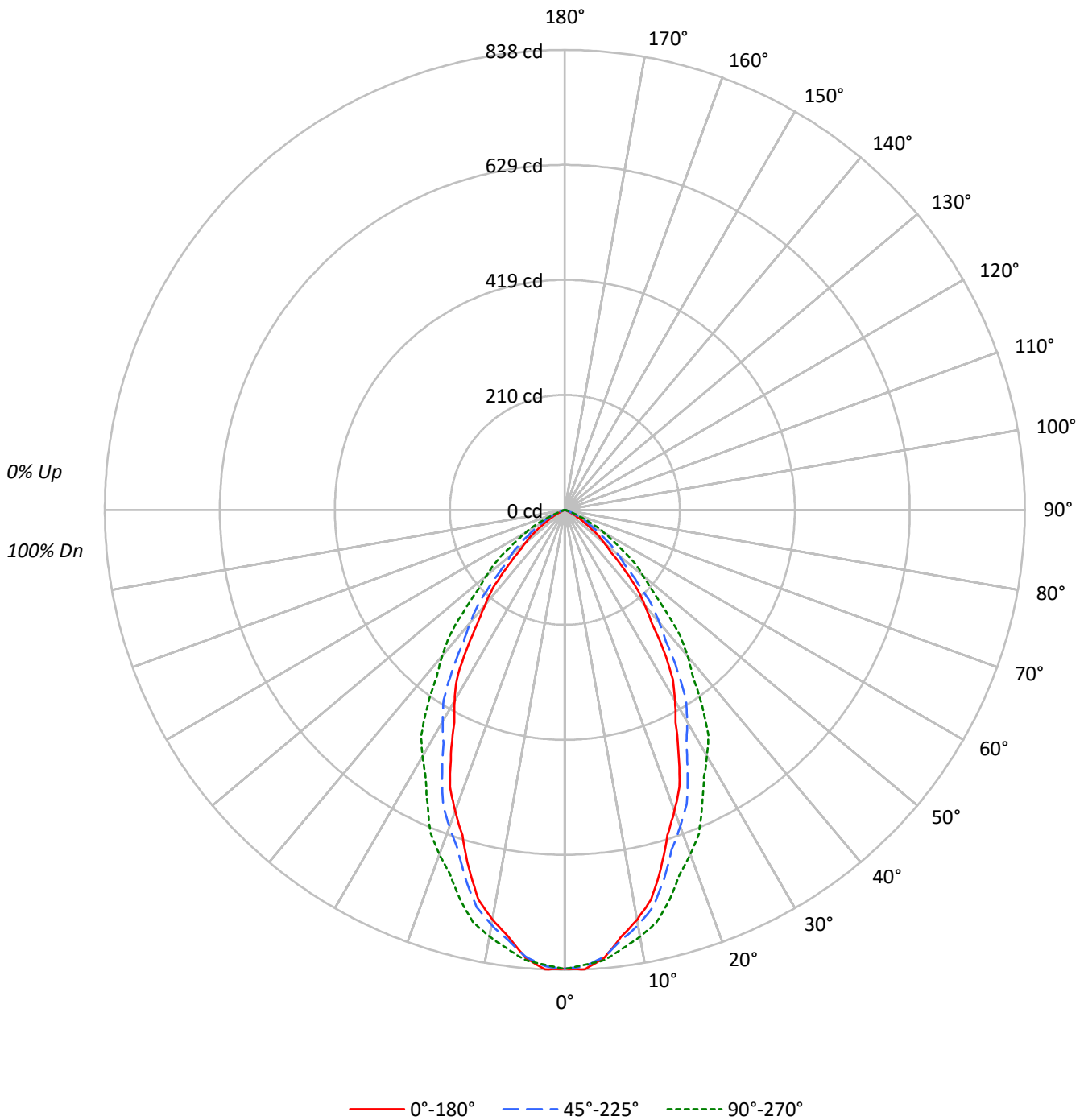
Lumens per Lamp: N/A  
Luminaire Lumens: 997.4 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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	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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82	
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74			74	
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67			67	
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61			61	
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56	
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51			51	
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47			47	
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44			44	
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41			41	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7714	7714	7714
5°	7590	7571	7628
10°	7102	7197	7397
15°	6456	6661	7032
20°	5731	6029	6558
25°	4991	5386	6025
30°	4275	4745	5521
35°	3545	4028	4912
40°	2723	3221	4185
45°	1969	2439	3368
50°	1341	1817	2671
55°	872	1314	2075
60°	500	926	1500
65°	133	565	760
70°	65	175	219
75°	29	14	0
80°	21	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.3	7.7
10°-20°	195.1	19.6
20°-30°	244.3	24.5
30°-40°	225.6	22.6
40°-50°	151.6	15.2
50°-60°	78.3	7.9
60°-70°	24.5	2.5
70°-80°	1.5	0.2
80°-90°	0.0	0.0
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°	515.7	51.7
0°-40°	741.4	74.3
0°-60°	971.3	97.4
0°-90°	997.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	820	811	818	820	824	76
15°	676	674	697	721	736	188
25°	490	494	529	565	592	225
35°	315	323	358	400	436	195
45°	151	160	187	223	258	118
55°	54	63	82	105	129	51
65°	6	12	26	31	35	10
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	836.1	836.1	836.1	836.1	836.1
2.5°	838.1	830.2	832.2	832.2	830.0
5°	819.5	811.2	817.5	820.4	823.6
7.5°	784.9	778.4	790.5	799.5	806.1
10°	758.1	752.5	768.2	780.5	789.6
12.5°	727.0	722.7	741.6	758.6	770.2
15°	675.9	673.6	697.4	720.8	736.2
17.5°	621.3	621.2	648.4	677.4	696.0
20°	583.7	584.9	614.1	646.1	667.9
22.5°	546.2	548.9	580.1	613.5	638.4
25°	490.3	494.2	529.1	565.3	591.8
27.5°	436.6	442.3	479.0	516.6	548.9
30°	401.3	408.0	445.4	485.0	518.2
32.5°	366.7	374.6	411.1	452.9	486.8
35°	314.7	322.6	357.6	399.7	436.1
37.5°	261.1	268.8	303.0	344.4	383.7
40°	226.1	234.8	267.4	307.5	347.5
42.5°	194.4	203.1	233.7	273.2	310.9
45°	150.9	160.0	186.9	223.3	258.1
47.5°	114.8	124.7	148.3	181.2	212.9
50°	93.4	103.3	126.6	155.6	186.1
52.5°	76.3	85.9	106.9	134.2	162.1
55°	54.2	63.3	81.7	104.9	129.0
57.5°	37.5	45.3	61.8	81.2	100.1
60°	27.1	34.6	50.2	65.9	81.3
62.5°	18.0	24.9	40.1	52.2	62.5
65°	6.1	11.6	25.9	31.2	34.8
67.5°	3.1	3.7	13.6	14.3	15.5
70°	2.4	2.4	6.5	6.9	8.1
72.5°	1.8	1.8	2.6	3.3	3.6
75°	0.8	0.8	0.4	0.0	0.0
77.5°	0.4	0.4	0.3	0.0	0.0
80°	0.4	0.4	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)