

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: P521505

Luminaire Tested: **SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521505  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

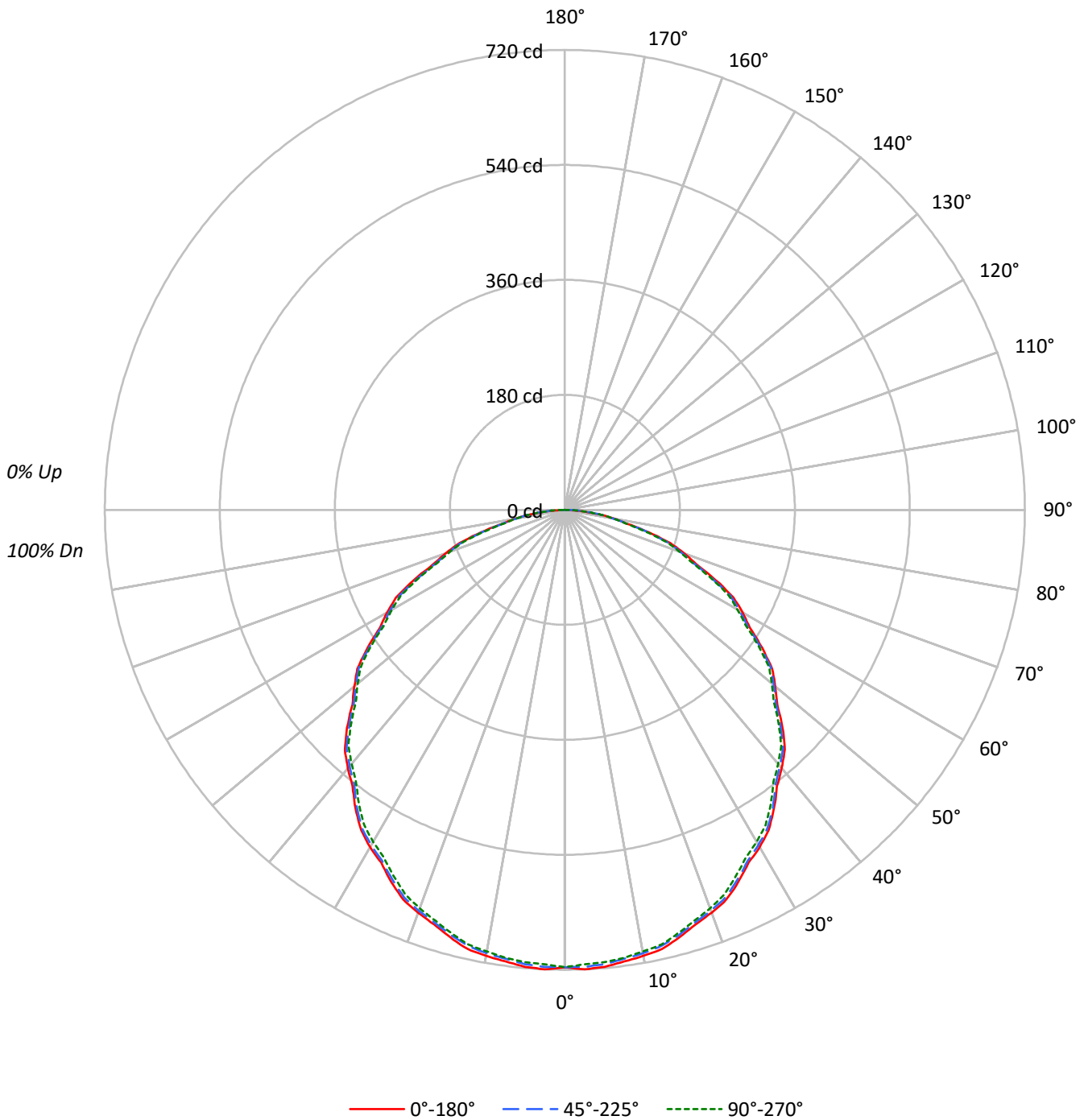
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2038.2 lumens  
Efficiency: N/A  
Efficacy: 97.5 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: Direct

Input Watts (W): 20.9  
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				
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59				
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38				
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				

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

	0°	45°	90°
0°	6606	6606	6606
5°	6650	6613	6585
10°	6642	6605	6577
15°	6619	6581	6552
20°	6588	6559	6519
25°	6546	6505	6444
30°	6499	6456	6392
35°	6431	6397	6330
40°	6359	6311	6251
45°	6289	6224	6172
50°	6172	6129	6071
55°	6064	6000	5936
60°	5923	5831	5757
65°	5698	5545	5480
70°	5341	5206	5152
75°	4848	4705	4634
80°	4038	4091	3985
85°	2858	3387	3387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.3
10°-20°	194.1	9.5
20°-30°	293.3	14.4
30°-40°	353.2	17.3
40°-50°	366.8	18.0
50°-60°	332.8	16.3
60°-70°	252.4	12.4
70°-80°	140.7	6.9
80°-90°	37.2	1.8
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°	555.1	27.2
0°-40°	908.3	44.6
0°-60°	1607.9	78.9
0°-90°	2038.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	718	712	714	712	711	68
15°	693	685	689	687	686	196
25°	643	636	639	633	633	296
35°	571	565	568	561	562	357
45°	482	477	477	472	473	371
55°	377	376	373	369	369	337
65°	261	258	254	251	251	258
75°	136	134	132	130	130	144
85°	27	30	32	32	32	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	716.0	716.0	716.0	716.0	716.0
2.5°	720.0	714.5	716.0	715.1	712.0
5°	718.0	712.1	714.0	712.0	711.0
7.5°	713.0	706.9	709.0	707.0	707.6
10°	709.0	702.2	705.0	703.0	702.0
12.5°	704.2	696.6	699.4	696.6	697.2
15°	693.0	685.2	689.0	687.0	686.0
17.5°	680.6	673.8	677.6	674.4	674.4
20°	671.0	664.2	668.0	664.0	664.0
22.5°	660.6	653.0	656.8	652.0	652.0
25°	643.0	636.2	639.0	633.0	633.0
27.5°	622.8	615.8	619.6	613.6	613.6
30°	610.0	602.2	606.0	600.0	600.0
32.5°	594.0	588.5	590.8	584.8	584.8
35°	571.0	565.1	568.0	561.0	562.0
37.5°	545.6	541.5	541.6	535.4	536.6
40°	528.0	523.1	524.0	517.0	519.0
42.5°	509.6	505.5	505.6	500.2	501.4
45°	482.0	477.1	477.0	472.0	473.0
47.5°	450.8	448.3	447.8	442.0	443.0
50°	430.0	429.0	427.0	422.0	423.0
52.5°	409.2	408.2	406.2	401.2	402.2
55°	377.0	376.0	373.0	369.0	369.0
57.5°	343.4	342.4	339.2	335.2	335.2
60°	321.0	320.0	316.0	312.0	312.0
62.5°	297.8	296.0	292.0	288.8	288.8
65°	261.0	258.1	254.0	251.0	251.0
67.5°	222.8	220.8	217.8	215.0	215.0
70°	198.0	196.0	193.0	191.0	191.0
72.5°	173.2	171.2	168.2	166.2	166.2
75°	136.0	134.0	132.0	130.0	130.0
77.5°	99.2	98.6	98.6	96.6	96.6
80°	76.0	77.0	77.0	75.0	75.0
82.5°	54.4	56.2	57.0	56.6	56.6
85°	27.0	29.9	32.0	32.0	32.0
87.5°	8.0	10.3	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)