

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: P520092

Luminaire Tested: **SQ4-F-0U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520092  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

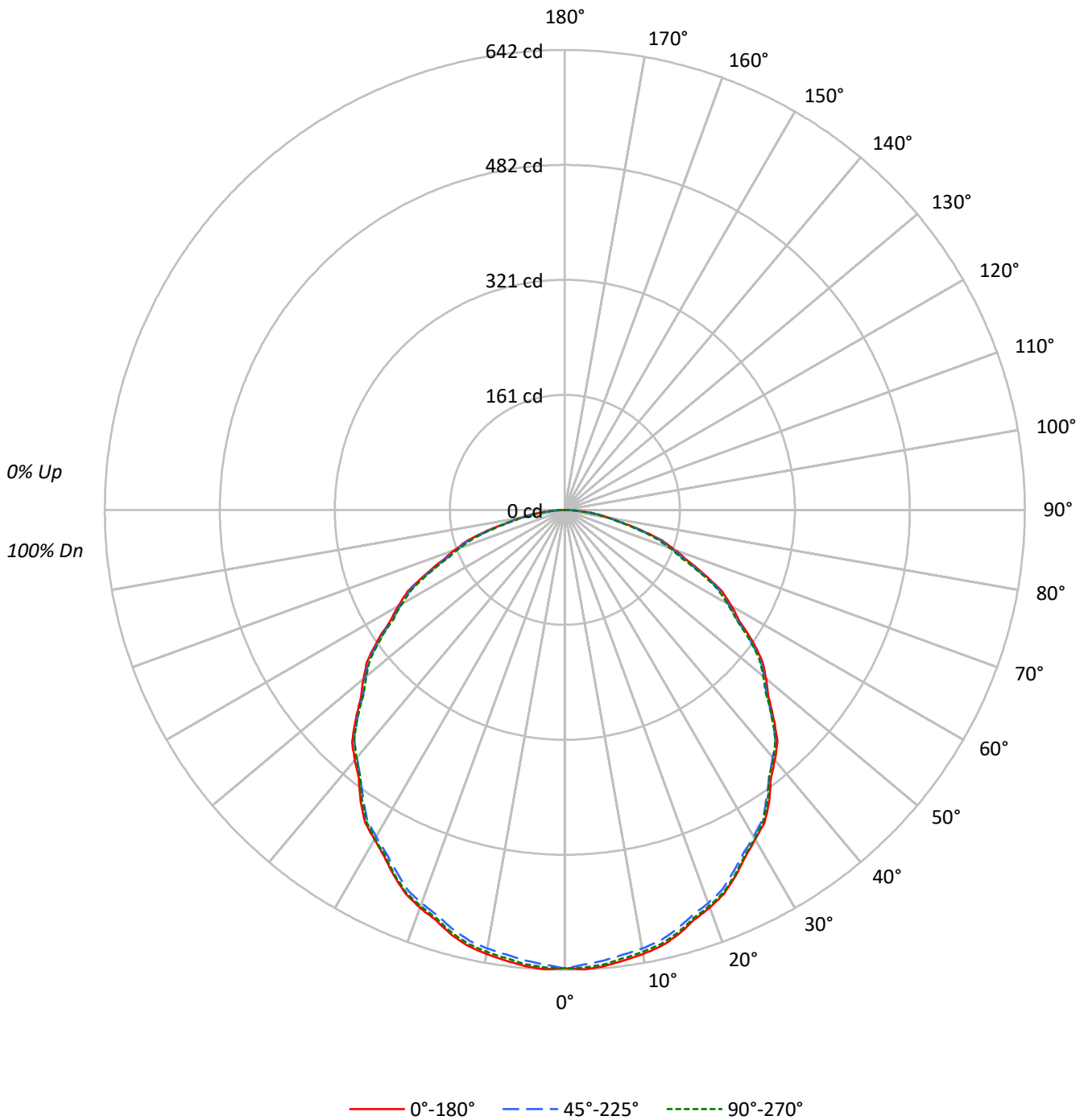
Lumens per Lamp: N/A  
Luminaire Lumens: 1746.8 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	5905	5905	5905
5°	5920	5849	5896
10°	5899	5827	5868
15°	5859	5785	5835
20°	5804	5737	5779
25°	5738	5669	5722
30°	5659	5613	5650
35°	5598	5530	5558
40°	5491	5438	5449
45°	5377	5333	5333
50°	5263	5215	5190
55°	5141	5072	5044
60°	4949	4870	4838
65°	4713	4619	4563
70°	4392	4297	4205
75°	3939	3818	3725
80°	3188	3145	3050
85°	1895	2181	2265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	3.5
10°-20°	172.0	9.8
20°-30°	258.3	14.8
30°-40°	308.3	17.7
40°-50°	315.9	18.1
50°-60°	281.8	16.1
60°-70°	209.8	12.0
70°-80°	113.9	6.5
80°-90°	26.4	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°	490.6	28.1
0°-40°	799.0	45.7
0°-60°	1396.7	80.0
0°-90°	1746.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	639	638	632	637	637	61
15°	613	612	606	611	611	173
25°	564	562	557	560	562	260
35°	497	495	491	491	494	310
45°	412	413	409	408	409	318
55°	320	320	315	313	314	285
65°	216	215	212	209	209	214
75°	110	110	107	105	104	117
85°	18	20	21	21	21	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	640.0	640.0	640.0	640.0	640.0
2.5°	642.0	640.7	635.2	640.0	639.4
5°	639.2	638.3	631.5	637.4	636.6
7.5°	634.5	632.9	626.1	632.0	631.1
10°	629.7	628.0	622.0	627.1	626.3
12.5°	623.6	622.6	615.9	621.0	620.8
15°	613.4	611.7	605.7	610.9	610.9
17.5°	600.1	599.1	593.2	598.1	597.6
20°	591.1	589.5	584.3	588.6	588.6
22.5°	580.2	579.2	574.1	577.6	578.3
25°	563.7	562.1	556.9	560.4	562.1
27.5°	545.6	544.3	540.0	542.2	543.4
30°	531.2	531.2	526.9	527.8	530.3
32.5°	518.2	518.2	513.2	514.1	515.3
35°	497.0	495.3	491.0	491.0	493.5
37.5°	472.2	471.4	468.7	468.2	468.9
40°	455.9	455.0	451.5	452.4	452.4
42.5°	439.4	438.5	435.0	433.9	435.2
45°	412.1	413.0	408.7	407.8	408.7
47.5°	385.3	385.3	381.8	379.4	380.7
50°	366.7	366.7	363.3	361.6	361.6
52.5°	347.5	348.2	344.0	341.7	342.4
55°	319.6	319.6	315.3	312.8	313.6
57.5°	288.7	288.7	284.5	281.9	283.4
60°	268.2	268.2	263.9	261.3	262.2
62.5°	247.6	247.6	243.4	240.8	240.9
65°	215.9	215.1	211.6	209.0	209.0
67.5°	185.4	183.2	180.6	177.2	177.2
70°	162.8	161.9	159.3	155.9	155.9
72.5°	142.2	140.7	138.1	135.4	135.4
75°	110.5	109.6	107.1	105.4	104.5
77.5°	79.2	78.5	78.3	75.9	76.6
80°	60.0	60.0	59.2	57.4	57.4
82.5°	42.8	43.5	42.0	41.6	40.9
85°	17.9	19.6	20.6	21.4	21.4
87.5°	3.5	5.4	4.8	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)