

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: P520093

Luminaire Tested: **SQ4-F-0U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520093  
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-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

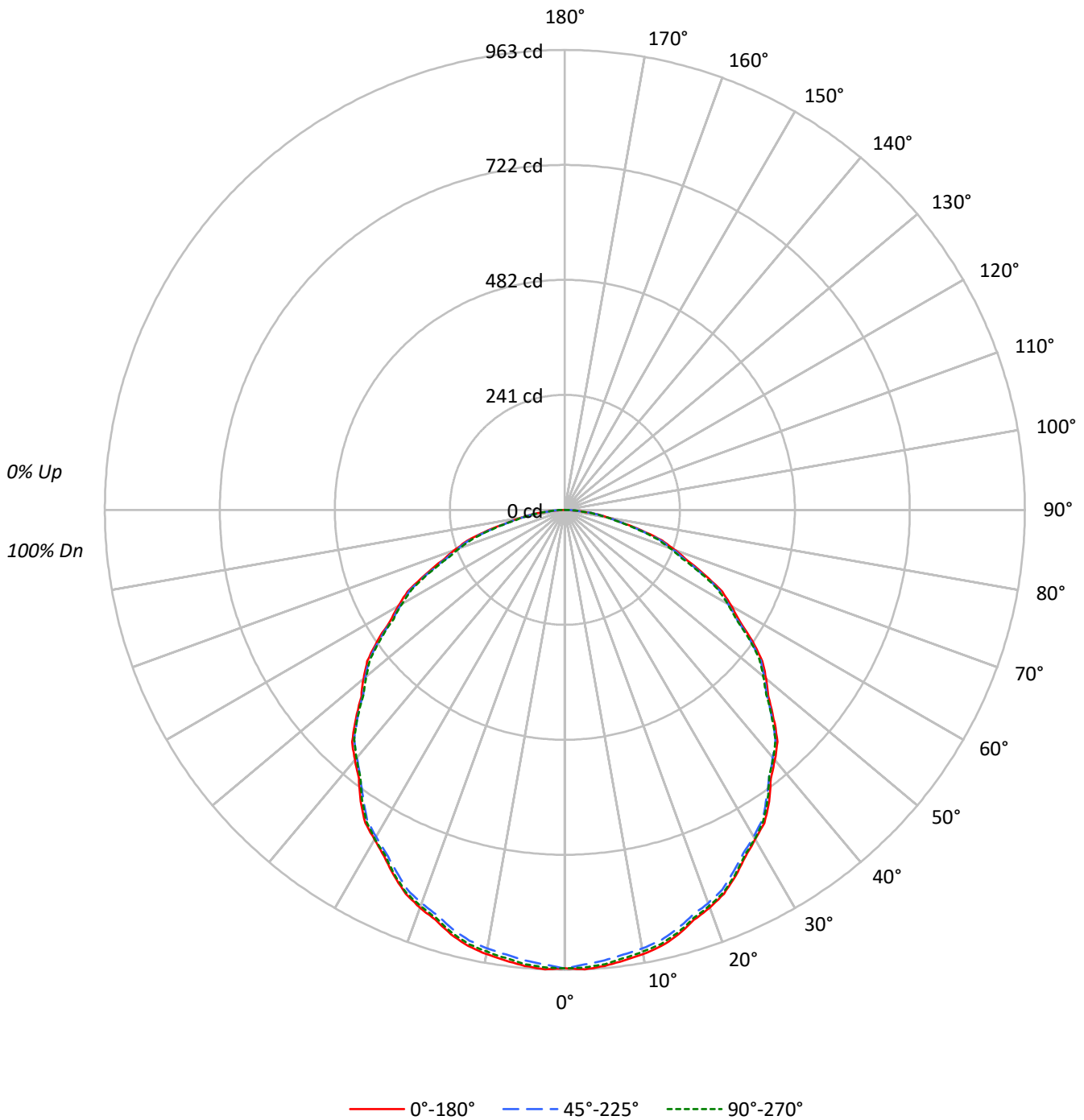
Lumens per Lamp: N/A  
Luminaire Lumens: 2620.1 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
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°	5919	5848	5896
10°	5900	5827	5867
15°	5860	5786	5835
20°	5805	5737	5779
25°	5739	5670	5722
30°	5659	5614	5651
35°	5597	5529	5558
40°	5490	5438	5449
45°	5377	5332	5332
50°	5263	5214	5189
55°	5140	5071	5043
60°	4948	4869	4837
65°	4713	4619	4564
70°	4390	4298	4206
75°	3940	3817	3726
80°	3184	3138	3050
85°	1905	2181	2265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	3.5
10°-20°	257.9	9.8
20°-30°	387.4	14.8
30°-40°	462.5	17.7
40°-50°	473.9	18.1
50°-60°	422.6	16.1
60°-70°	314.7	12.0
70°-80°	170.9	6.5
80°-90°	39.6	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°	735.9	28.1
0°-40°	1198.4	45.7
0°-60°	2095.0	80.0
0°-90°	2620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	947	956	955	91
15°	920	918	909	916	916	259
25°	846	843	835	840	843	389
35°	745	743	736	736	740	465
45°	618	619	613	612	613	477
55°	479	479	473	469	470	427
65°	324	323	317	314	314	321
75°	166	165	161	158	157	175
85°	27	30	31	32	32	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	960.0	960.0	960.0	960.0	960.0
2.5°	963.1	961.1	952.8	960.0	959.0
5°	958.7	957.5	947.2	956.2	954.9
7.5°	951.8	949.3	939.2	947.9	946.6
10°	944.6	942.1	933.0	940.7	939.4
12.5°	935.4	933.8	923.7	931.5	931.2
15°	920.2	917.6	908.7	916.3	916.3
17.5°	900.2	898.6	889.8	897.3	896.2
20°	886.8	884.3	876.5	882.9	882.9
22.5°	870.3	868.8	861.0	866.4	867.5
25°	845.6	843.1	835.4	840.5	843.1
27.5°	818.4	816.4	809.9	813.3	815.1
30°	796.8	796.8	790.4	791.7	795.6
32.5°	777.3	777.3	769.8	771.1	772.9
35°	745.4	742.9	736.4	736.5	740.2
37.5°	708.4	707.1	703.0	702.3	703.3
40°	683.7	682.4	677.3	678.6	678.6
42.5°	659.1	657.8	652.6	650.9	652.9
45°	618.2	619.4	613.0	611.7	613.0
47.5°	577.8	577.8	572.7	569.2	571.1
50°	550.0	550.0	544.9	542.3	542.3
52.5°	521.2	522.3	516.1	512.6	513.5
55°	479.3	479.3	472.9	469.1	470.3
57.5°	433.1	433.1	426.7	422.9	425.1
60°	402.2	402.2	395.8	392.0	393.2
62.5°	371.4	371.4	364.9	361.1	361.4
65°	323.8	322.6	317.4	313.6	313.6
67.5°	278.1	274.8	270.9	265.7	265.7
70°	244.1	243.0	239.0	233.9	233.9
72.5°	213.4	211.1	207.2	203.0	203.0
75°	165.8	164.6	160.6	158.1	156.8
77.5°	118.7	117.7	117.4	113.9	114.9
80°	89.9	89.9	88.6	86.1	86.1
82.5°	64.3	65.3	63.0	62.4	61.4
85°	27.0	29.5	30.9	32.1	32.1
87.5°	5.1	8.2	7.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)