

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: P520088

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520088
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

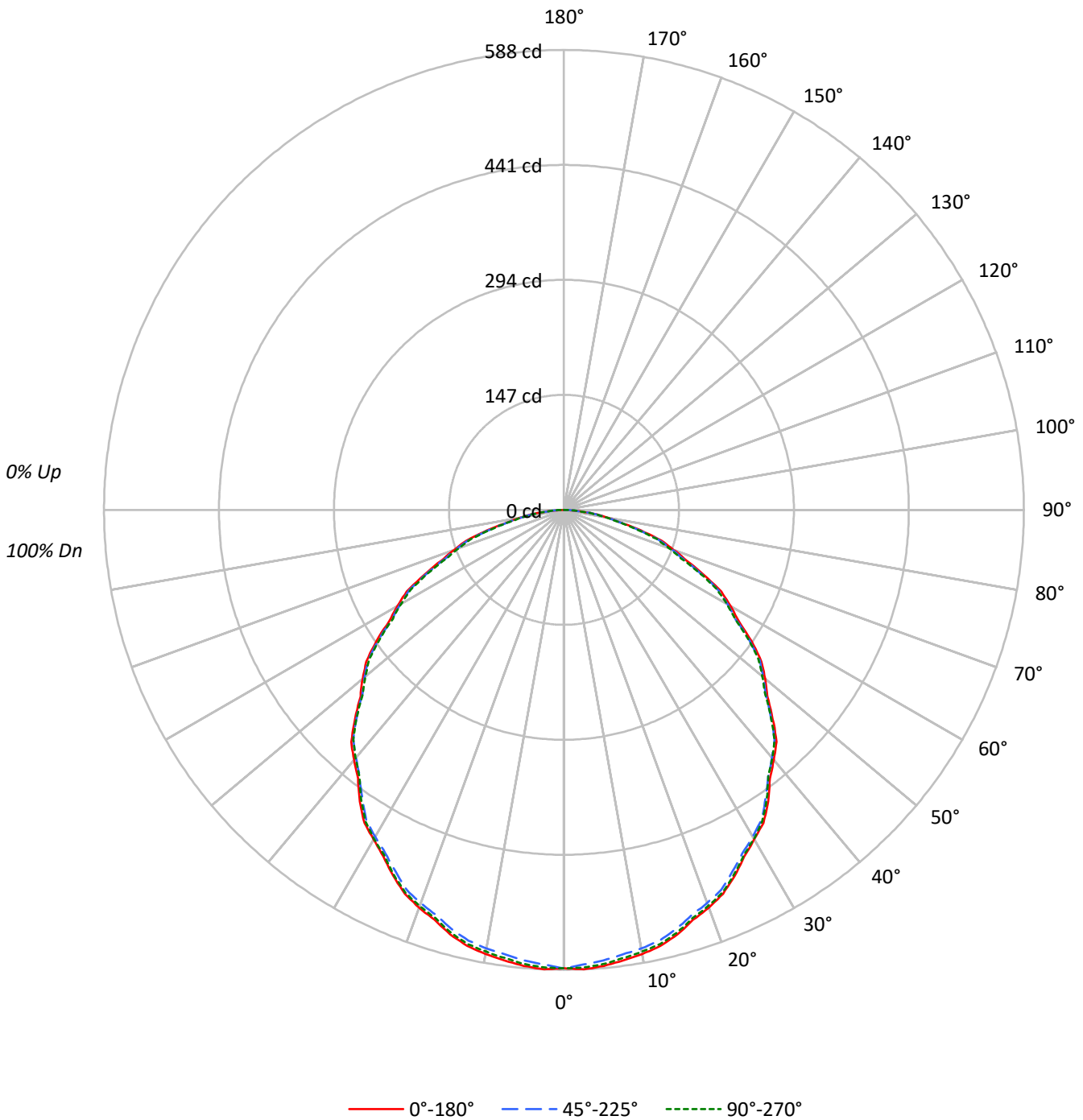
Lumens per Lamp: N/A
Luminaire Lumens: 1599.8 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	5407	5407	5407
5°	5421	5356	5399
10°	5403	5336	5374
15°	5367	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5174
35°	5126	5064	5091
40°	5027	4981	4990
45°	4926	4884	4884
50°	4821	4775	4752
55°	4708	4644	4618
60°	4532	4460	4430
65°	4316	4233	4181
70°	4022	3936	3852
75°	3611	3497	3411
80°	2917	2874	2795
85°	1747	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.5
10°-20°	157.5	9.8
20°-30°	236.5	14.8
30°-40°	282.4	17.6
40°-50°	289.4	18.1
50°-60°	258.1	16.1
60°-70°	192.2	12.0
70°-80°	104.3	6.5
80°-90°	24.2	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°	449.3	28.1
0°-40°	731.7	45.7
0°-60°	1279.1	80.0
0°-90°	1599.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	585	585	578	584	583	56
15°	562	560	555	560	560	158
25°	516	515	510	513	515	238
35°	455	454	450	450	452	284
45°	378	378	374	374	374	291
55°	293	293	289	286	287	261
65°	198	197	194	192	192	196
75°	101	100	98	96	96	107
85°	16	18	19	20	20	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.1	586.1	586.1	586.1	586.1
2.5°	588.0	586.8	581.8	586.1	585.5
5°	585.3	584.6	578.3	583.7	583.0
7.5°	581.1	579.6	573.4	578.7	578.0
10°	576.7	575.2	569.6	574.4	573.6
12.5°	571.0	570.1	564.0	568.8	568.6
15°	561.9	560.3	554.8	559.5	559.5
17.5°	549.5	548.6	543.3	547.9	547.3
20°	541.4	539.9	535.1	539.1	539.1
22.5°	531.4	530.5	525.8	529.0	529.6
25°	516.3	514.7	510.0	513.2	514.7
27.5°	499.6	498.5	494.5	496.6	497.7
30°	486.5	486.5	482.6	483.4	485.7
32.5°	474.6	474.6	470.1	470.8	471.9
35°	455.1	453.6	449.6	449.6	452.0
37.5°	432.5	431.7	429.2	428.7	429.3
40°	417.4	416.7	413.6	414.3	414.3
42.5°	402.4	401.6	398.5	397.4	398.6
45°	377.5	378.2	374.3	373.5	374.3
47.5°	352.8	352.8	349.7	347.5	348.7
50°	335.9	335.9	332.7	331.1	331.1
52.5°	318.3	318.9	315.1	313.0	313.6
55°	292.7	292.7	288.7	286.4	287.1
57.5°	264.5	264.5	260.5	258.1	259.5
60°	245.6	245.6	241.7	239.3	240.1
62.5°	226.8	226.8	222.8	220.5	220.7
65°	197.7	197.0	193.9	191.5	191.5
67.5°	169.8	167.8	165.4	162.3	162.3
70°	149.1	148.3	145.9	142.8	142.8
72.5°	130.3	128.9	126.5	123.9	123.9
75°	101.3	100.5	98.1	96.5	95.7
77.5°	72.5	71.9	71.7	69.5	70.1
80°	54.9	54.9	54.1	52.6	52.6
82.5°	39.2	39.8	38.5	38.2	37.5
85°	16.5	18.0	18.8	19.6	19.6
87.5°	3.2	5.0	4.4	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)