

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: P520084

Luminaire Tested: **SQ4-F-0U-050D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520084
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

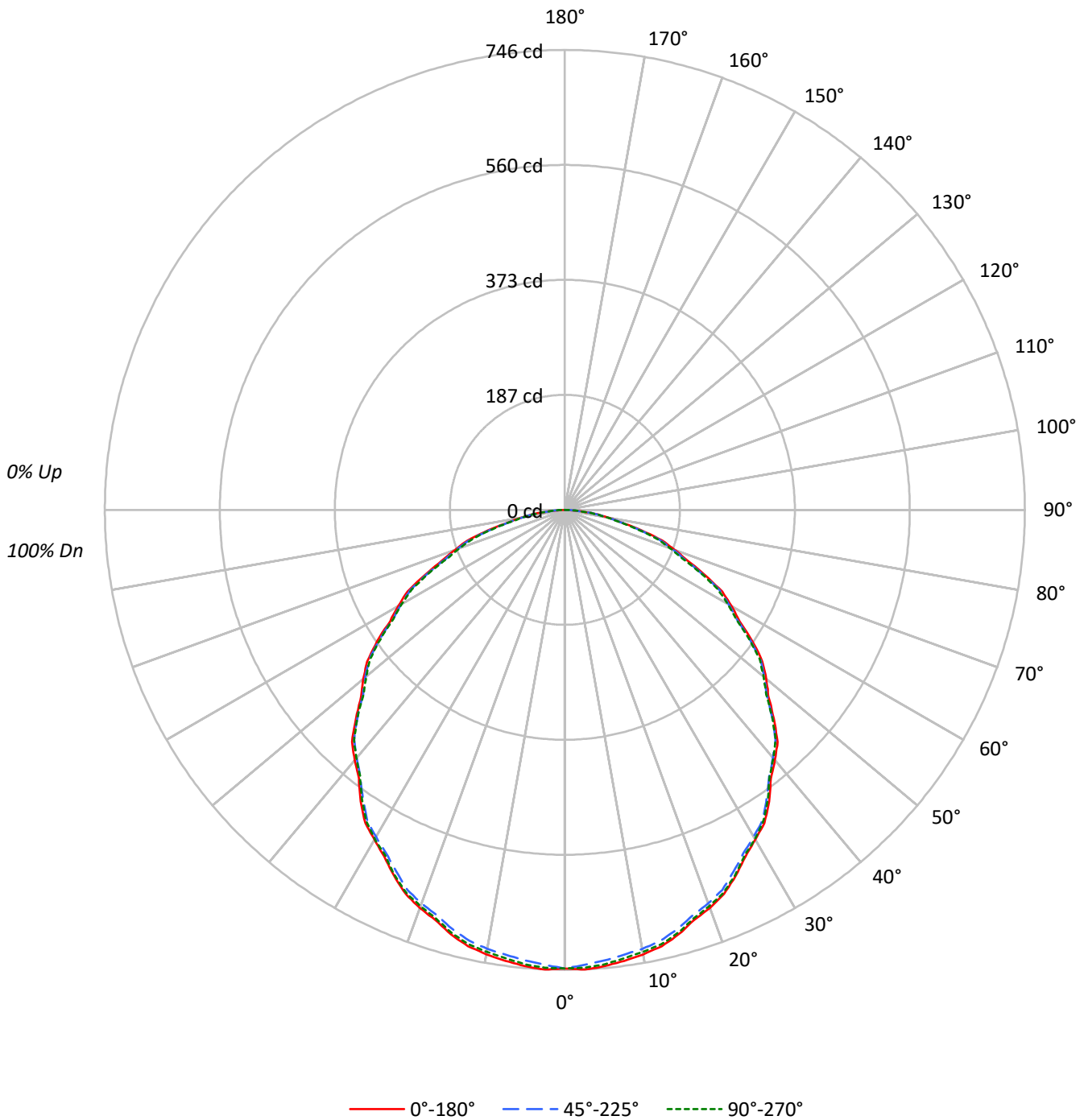
Lumens per Lamp: N/A
Luminaire Lumens: 2030.6 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	6864	6864	6864
5°	6881	6798	6853
10°	6858	6774	6821
15°	6811	6725	6784
20°	6747	6670	6718
25°	6671	6590	6652
30°	6579	6525	6568
35°	6506	6428	6462
40°	6382	6322	6334
45°	6250	6199	6199
50°	6119	6061	6033
55°	5976	5895	5863
60°	5752	5661	5624
65°	5480	5370	5307
70°	5104	4999	4888
75°	4581	4438	4331
80°	3703	3650	3549
85°	2212	2530	2636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	3.5
10°-20°	199.9	9.8
20°-30°	300.2	14.8
30°-40°	358.4	17.7
40°-50°	367.3	18.1
50°-60°	327.5	16.1
60°-70°	243.9	12.0
70°-80°	132.4	6.5
80°-90°	30.7	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°	570.3	28.1
0°-40°	928.8	45.7
0°-60°	1623.6	80.0
0°-90°	2030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	743	742	734	741	740	71
15°	713	711	704	710	710	201
25°	655	653	647	651	653	302
35°	578	576	571	571	574	360
45°	479	480	475	474	475	370
55°	372	372	366	364	364	331
65°	251	250	246	243	243	249
75°	128	128	124	122	122	136
85°	21	23	24	25	25	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.0	744.0	744.0	744.0	744.0
2.5°	746.3	744.9	738.5	744.0	743.2
5°	743.0	742.0	734.0	741.0	740.0
7.5°	737.7	735.7	727.9	734.6	733.6
10°	732.0	730.1	723.1	729.0	728.1
12.5°	724.9	723.7	715.9	721.9	721.7
15°	713.1	711.1	704.1	710.2	710.2
17.5°	697.5	696.5	689.6	695.4	694.6
20°	687.2	685.3	679.3	684.2	684.2
22.5°	674.5	673.3	667.3	671.5	672.3
25°	655.3	653.4	647.3	651.4	653.4
27.5°	634.2	632.7	627.6	630.3	631.7
30°	617.5	617.5	612.5	613.6	616.5
32.5°	602.4	602.4	596.6	597.6	599.0
35°	577.6	575.8	570.7	570.7	573.7
37.5°	548.9	548.1	544.8	544.2	545.0
40°	529.9	528.9	524.9	525.9	525.9
42.5°	510.8	509.8	505.7	504.4	505.9
45°	479.0	480.0	475.1	474.1	475.1
47.5°	447.8	447.8	443.8	441.1	442.6
50°	426.3	426.3	422.3	420.3	420.3
52.5°	404.0	404.8	399.9	397.2	398.0
55°	371.5	371.5	366.5	363.6	364.5
57.5°	335.7	335.7	330.6	327.8	329.4
60°	311.7	311.7	306.8	303.8	304.8
62.5°	287.8	287.8	282.9	279.8	280.0
65°	251.0	250.0	246.0	243.1	243.1
67.5°	215.6	213.0	209.9	206.0	206.0
70°	189.2	188.2	185.3	181.2	181.2
72.5°	165.4	163.6	160.5	157.4	157.4
75°	128.5	127.5	124.5	122.5	121.5
77.5°	92.0	91.2	91.0	88.3	89.0
80°	69.7	69.7	68.7	66.8	66.8
82.5°	49.8	50.6	48.8	48.4	47.6
85°	20.9	22.9	23.9	24.9	24.9
87.5°	3.9	6.3	5.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)