

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: P562304

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562304
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2127.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

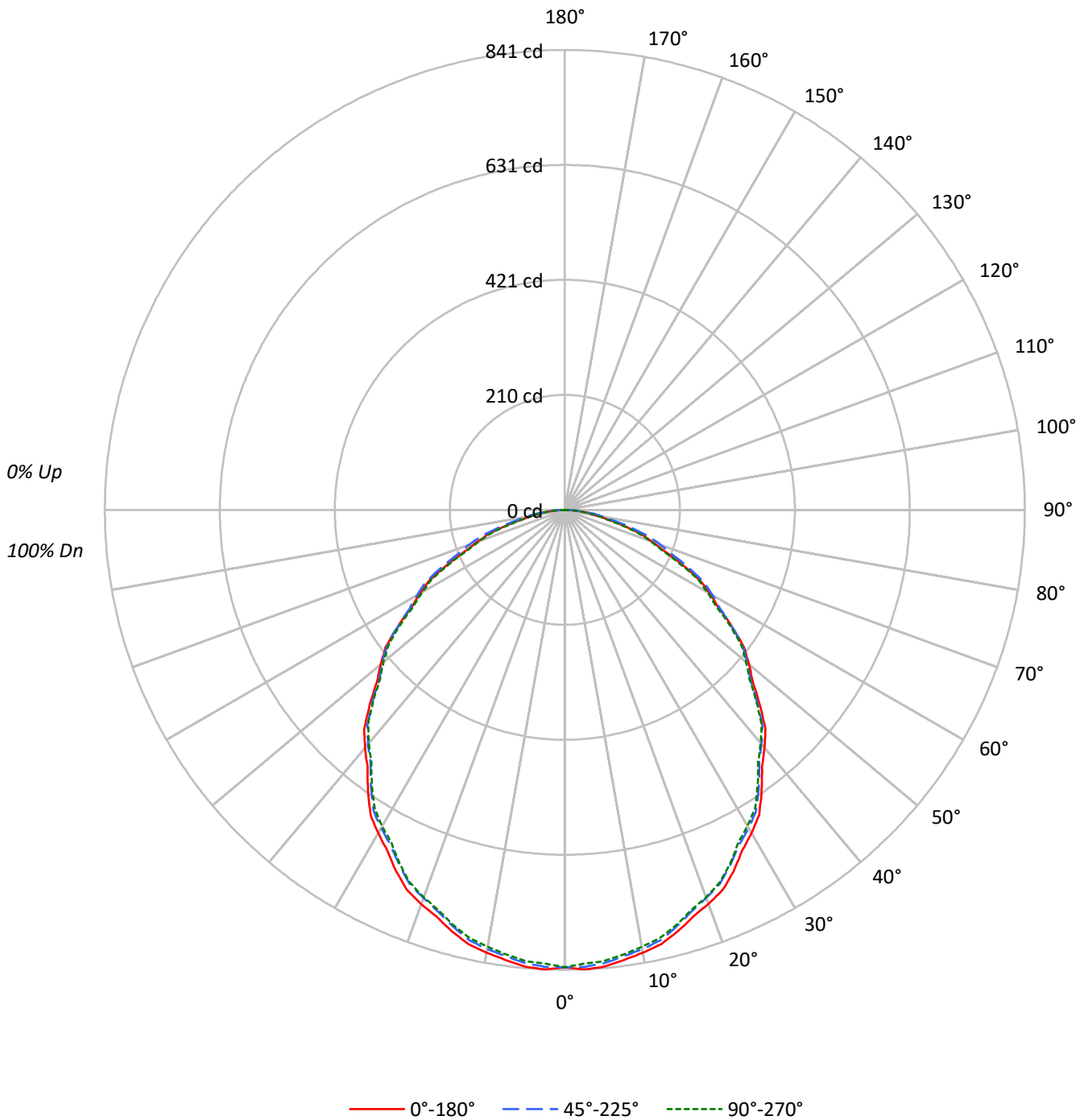
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7716	7716	7716
5°	7766	7705	7670
10°	7704	7642	7601
15°	7622	7538	7510
20°	7532	7416	7401
25°	7426	7291	7269
30°	7269	7159	7112
35°	7063	6963	6921
40°	6842	6736	6710
45°	6576	6490	6461
50°	6304	6251	6208
55°	6010	6010	5915
60°	5643	5752	5547
65°	5163	5421	5034
70°	4551	4990	4432
75°	3889	4467	3782
80°	3013	3756	3055
85°	1948	2890	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.7
10°-20°	222.3	10.4
20°-30°	329.8	15.5
30°-40°	385.9	18.1
40°-50°	384.2	18.1
50°-60°	331.8	15.6
60°-70°	238.8	11.2
70°-80°	125.2	5.9
80°-90°	31.1	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°	630.9	29.6
0°-40°	1016.8	47.8
0°-60°	1732.8	81.4
0°-90°	2127.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	838	829	832	830	828	79
15°	798	788	789	788	786	225
25°	730	717	716	712	714	335
35°	627	618	618	612	614	392
45°	504	500	497	496	495	389
55°	374	373	374	368	368	333
65°	236	244	248	239	231	234
75°	109	119	125	117	106	117
85°	18	24	27	26	24	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.3	836.3	836.3	836.3	836.3
2.5°	841.1	834.1	836.3	834.5	830.4
5°	838.5	829.2	831.9	829.7	828.2
7.5°	830.0	821.4	823.4	821.0	820.1
10°	822.3	813.7	815.7	812.7	811.3
12.5°	813.5	804.3	806.3	803.3	802.4
15°	798.0	787.9	789.2	787.7	786.2
17.5°	780.0	769.8	770.0	767.7	767.4
20°	767.1	756.3	755.3	752.4	753.8
22.5°	752.9	741.5	740.5	736.5	738.5
25°	729.5	717.2	716.2	711.9	714.0
27.5°	702.4	690.3	690.3	684.2	686.5
30°	682.3	670.8	672.0	664.7	667.6
32.5°	661.1	650.7	651.4	644.1	647.0
35°	627.1	618.4	618.2	612.4	614.5
37.5°	592.3	584.7	583.4	580.1	580.6
40°	568.1	561.6	559.3	557.1	557.1
42.5°	542.8	536.9	534.5	532.9	532.3
45°	504.0	499.7	497.4	495.9	495.2
47.5°	465.7	461.7	459.7	458.6	457.9
50°	439.2	436.3	435.5	433.3	432.5
52.5°	412.6	410.9	410.1	407.3	406.6
55°	373.6	372.9	373.6	368.4	367.7
57.5°	332.9	334.1	336.5	329.5	327.8
60°	305.8	308.7	311.7	303.5	300.6
62.5°	278.1	282.7	286.9	277.6	273.5
65°	236.5	243.7	248.3	238.6	230.6
67.5°	196.4	205.4	210.9	200.4	191.4
70°	168.7	178.8	185.0	174.4	164.3
72.5°	144.6	155.8	160.8	150.8	140.7
75°	109.1	119.1	125.3	116.9	106.1
77.5°	77.4	86.9	92.0	84.7	75.7
80°	56.7	66.8	70.7	64.7	57.5
82.5°	40.2	48.6	51.3	47.6	42.7
85°	18.4	24.2	27.3	25.8	24.3
87.5°	4.7	8.8	11.2	11.2	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)