

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: P561938

Luminaire Tested: **SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561938
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

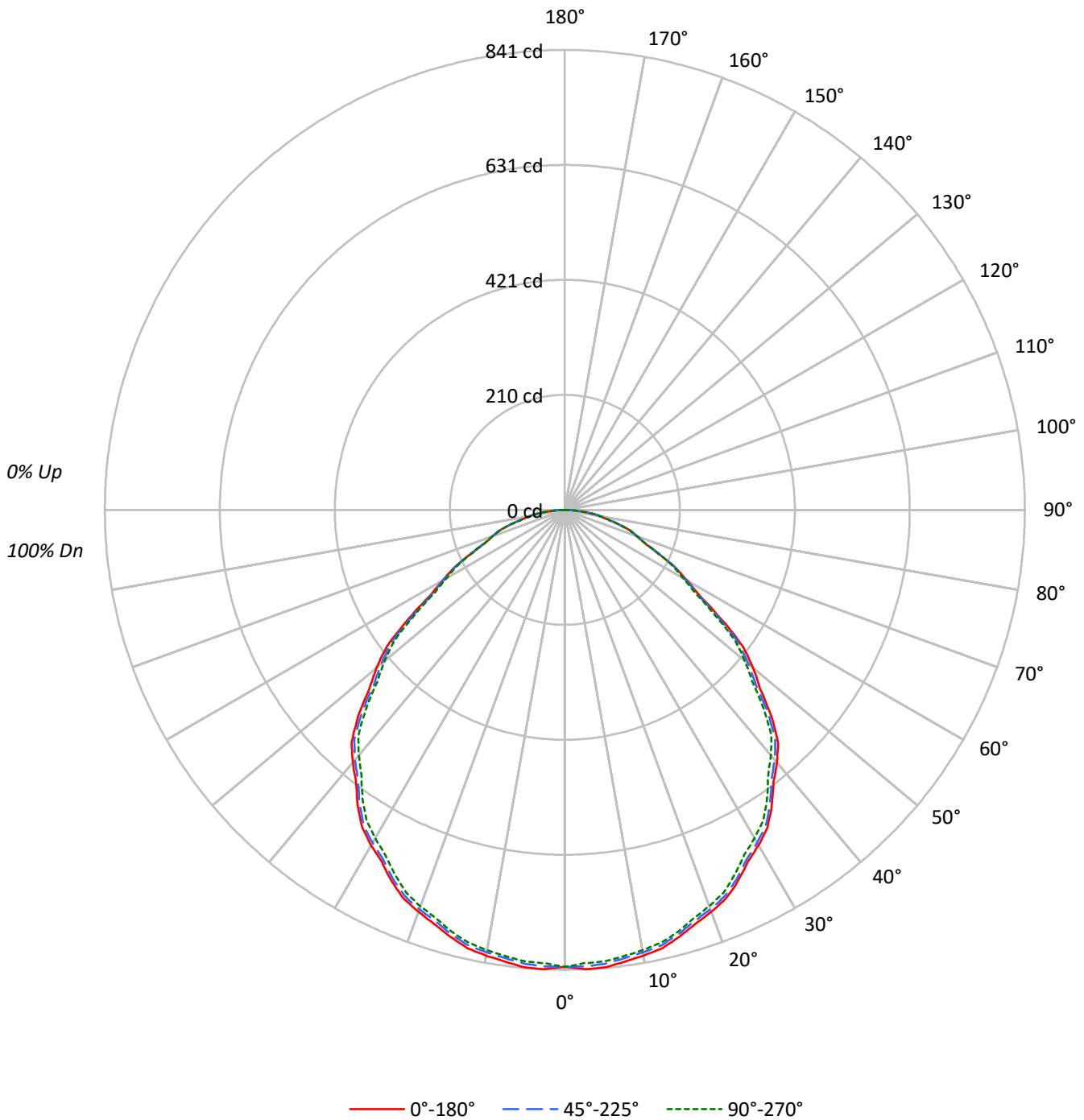
Lumens per Lamp: N/A
Luminaire Lumens: 2088.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7709	7709	7709
5°	7779	7718	7679
10°	7753	7700	7660
15°	7720	7672	7631
20°	7681	7632	7575
25°	7627	7576	7487
30°	7545	7490	7384
35°	7434	7368	7262
40°	7264	7185	7055
45°	6968	6846	6705
50°	6446	6291	6168
55°	5627	5500	5384
60°	4740	4702	4608
65°	4100	4117	4085
70°	3766	3785	3785
75°	3618	3618	3643
80°	3406	3443	3406
85°	2742	3049	3049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.8
10°-20°	226.1	10.8
20°-30°	341.0	16.3
30°-40°	406.3	19.5
40°-50°	400.6	19.2
50°-60°	306.1	14.7
60°-70°	189.4	9.1
70°-80°	107.6	5.2
80°-90°	32.7	1.6
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°	646.1	30.9
0°-40°	1052.3	50.4
0°-60°	1759.0	84.2
0°-90°	2088.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	831	833	830	829	80
15°	808	800	803	800	799	228
25°	749	740	744	736	736	345
35°	660	652	654	646	645	412
45°	534	527	525	515	514	409
55°	350	344	342	336	335	313
65°	188	186	189	187	187	190
75°	102	102	102	102	102	107
85°	26	27	29	29	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.6	835.6	835.6	835.6	835.6
2.5°	840.7	833.4	835.6	833.7	829.8
5°	839.9	830.7	833.4	830.5	829.1
7.5°	833.4	824.4	827.1	824.2	823.3
10°	827.6	819.2	821.9	819.0	817.6
12.5°	821.3	812.3	815.6	812.1	810.7
15°	808.2	799.8	803.2	800.3	798.9
17.5°	793.8	784.8	788.2	784.8	783.0
20°	782.3	773.9	777.3	772.2	771.5
22.5°	769.6	761.2	764.6	757.8	757.7
25°	749.2	740.0	744.2	736.2	735.5
27.5°	724.9	716.4	719.8	711.8	710.9
30°	708.2	699.7	703.1	694.5	693.1
32.5°	689.2	681.3	684.1	675.5	674.6
35°	660.0	652.2	654.2	645.5	644.8
37.5°	626.7	619.7	620.8	611.3	610.6
40°	603.1	596.1	596.6	586.5	585.8
42.5°	577.2	570.2	569.6	559.5	558.8
45°	534.0	527.0	524.7	515.3	513.9
47.5°	484.8	477.7	473.4	465.8	464.8
50°	449.1	442.0	438.3	431.8	429.7
52.5°	410.5	403.5	400.3	394.3	392.2
55°	349.8	344.1	341.9	336.1	334.7
57.5°	292.0	288.2	287.6	282.0	281.4
60°	256.9	254.8	254.8	249.7	249.7
62.5°	227.0	225.4	226.6	223.2	222.7
65°	187.8	186.4	188.6	187.1	187.1
67.5°	156.9	156.9	158.2	157.6	157.6
70°	139.6	139.6	140.3	140.3	140.3
72.5°	124.1	123.5	125.4	125.4	124.8
75°	101.5	101.5	101.5	102.2	102.2
77.5°	79.0	79.2	79.7	79.6	79.0
80°	64.1	64.8	64.8	64.1	64.1
82.5°	49.1	49.8	49.8	49.6	49.1
85°	25.9	27.3	28.8	28.8	28.8
87.5°	7.5	9.7	11.5	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)