

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: P562297

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562297  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1900.6 lumens  
Efficiency: N/A  
Efficacy: 92.3 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

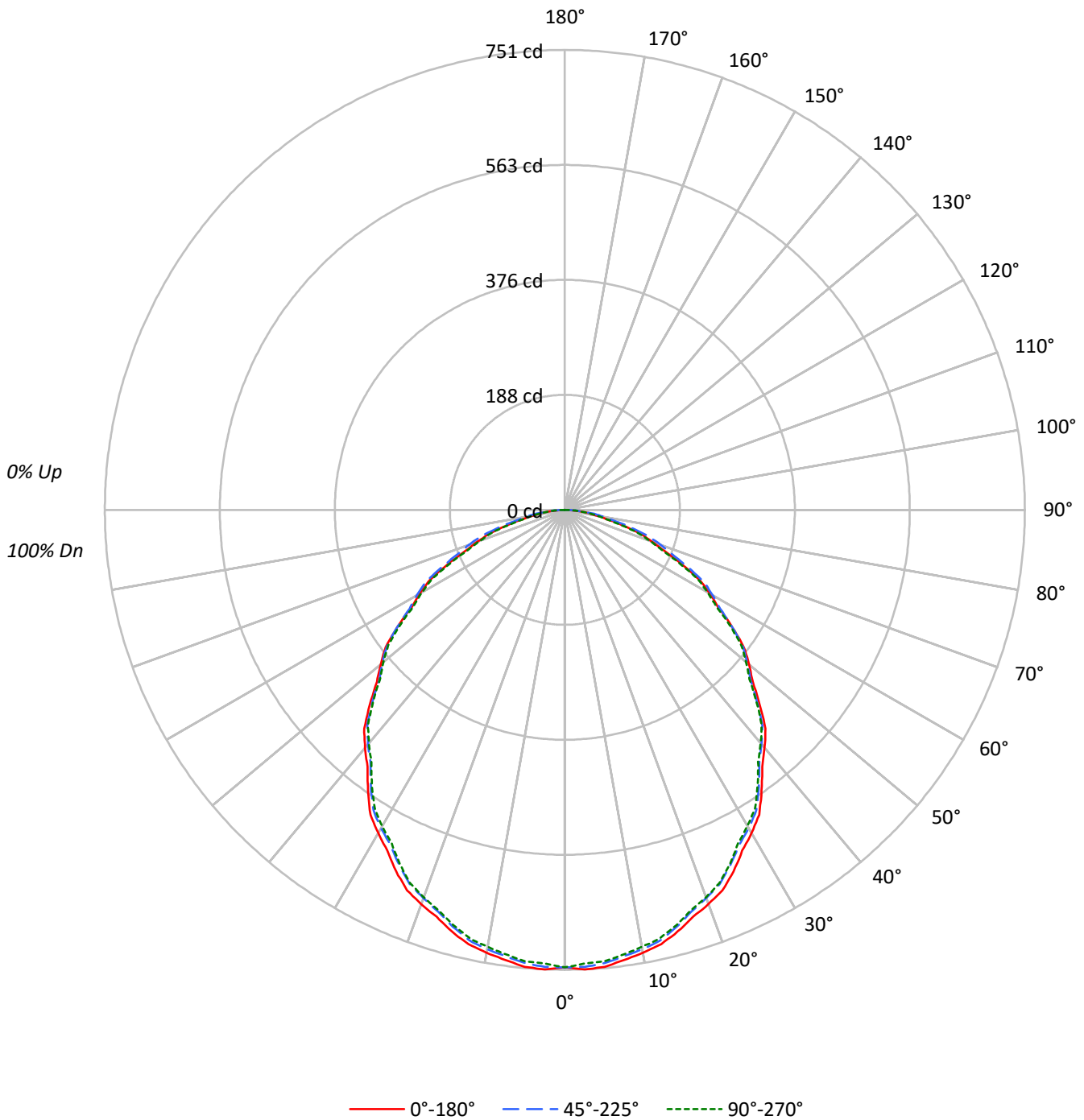
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	6892	6892	6892
5°	6937	6882	6852
10°	6881	6826	6788
15°	6808	6733	6708
20°	6728	6623	6611
25°	6633	6512	6493
30°	6493	6394	6353
35°	6308	6219	6182
40°	6111	6016	5993
45°	5874	5797	5771
50°	5631	5583	5545
55°	5368	5368	5282
60°	5039	5137	4954
65°	4613	4842	4497
70°	4065	4456	3960
75°	3472	3989	3379
80°	2694	3358	2726
85°	1747	2583	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	3.7
10°-20°	198.6	10.4
20°-30°	294.6	15.5
30°-40°	344.7	18.1
40°-50°	343.2	18.1
50°-60°	296.3	15.6
60°-70°	213.3	11.2
70°-80°	111.9	5.9
80°-90°	27.7	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°	563.5	29.7
0°-40°	908.2	47.8
0°-60°	1547.7	81.4
0°-90°	1900.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	741	743	741	740	71
15°	713	704	705	704	702	201
25°	652	641	640	636	638	300
35°	560	552	552	547	549	350
45°	450	446	444	443	442	347
55°	334	333	334	329	328	298
65°	211	218	222	213	206	209
75°	97	106	112	104	95	104
85°	16	22	24	23	22	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.2	745.1	747.0	745.4	741.8
5°	749.0	740.6	743.1	741.1	739.8
7.5°	741.4	733.6	735.4	733.3	732.5
10°	734.5	726.8	728.6	725.9	724.6
12.5°	726.6	718.4	720.2	717.5	716.7
15°	712.8	703.8	704.9	703.6	702.3
17.5°	696.7	687.6	687.8	685.7	685.4
20°	685.2	675.5	674.6	672.0	673.3
22.5°	672.5	662.3	661.5	657.8	659.6
25°	651.6	640.6	639.7	635.8	637.8
27.5°	627.4	616.6	616.6	611.1	613.1
30°	609.5	599.2	600.2	593.7	596.3
32.5°	590.5	581.2	581.8	575.3	577.9
35°	560.1	552.4	552.2	547.0	548.9
37.5°	529.0	522.2	521.1	518.1	518.6
40°	507.4	501.7	499.5	497.6	497.6
42.5°	484.8	479.5	477.4	476.0	475.5
45°	450.2	446.3	444.3	442.9	442.3
47.5°	416.0	412.4	410.6	409.6	409.0
50°	392.3	389.7	389.0	387.0	386.3
52.5°	368.6	367.0	366.3	363.8	363.2
55°	333.7	333.0	333.7	329.1	328.4
57.5°	297.4	298.4	300.5	294.3	292.8
60°	273.1	275.7	278.4	271.1	268.5
62.5°	248.4	252.5	256.3	247.9	244.3
65°	211.3	217.7	221.8	213.1	206.0
67.5°	175.5	183.4	188.4	179.0	171.0
70°	150.7	159.7	165.2	155.8	146.8
72.5°	129.1	139.2	143.6	134.7	125.7
75°	97.4	106.4	111.9	104.4	94.8
77.5°	69.1	77.6	82.1	75.6	67.7
80°	50.7	59.7	63.2	57.8	51.3
82.5°	35.9	43.4	45.8	42.5	38.2
85°	16.5	21.6	24.4	23.0	21.7
87.5°	4.2	7.8	10.0	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)