

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: P562301

Luminaire Tested: **SQ4-PW1-0U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562301  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2055.5 lumens  
Efficiency: N/A  
Efficacy: 99.3 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

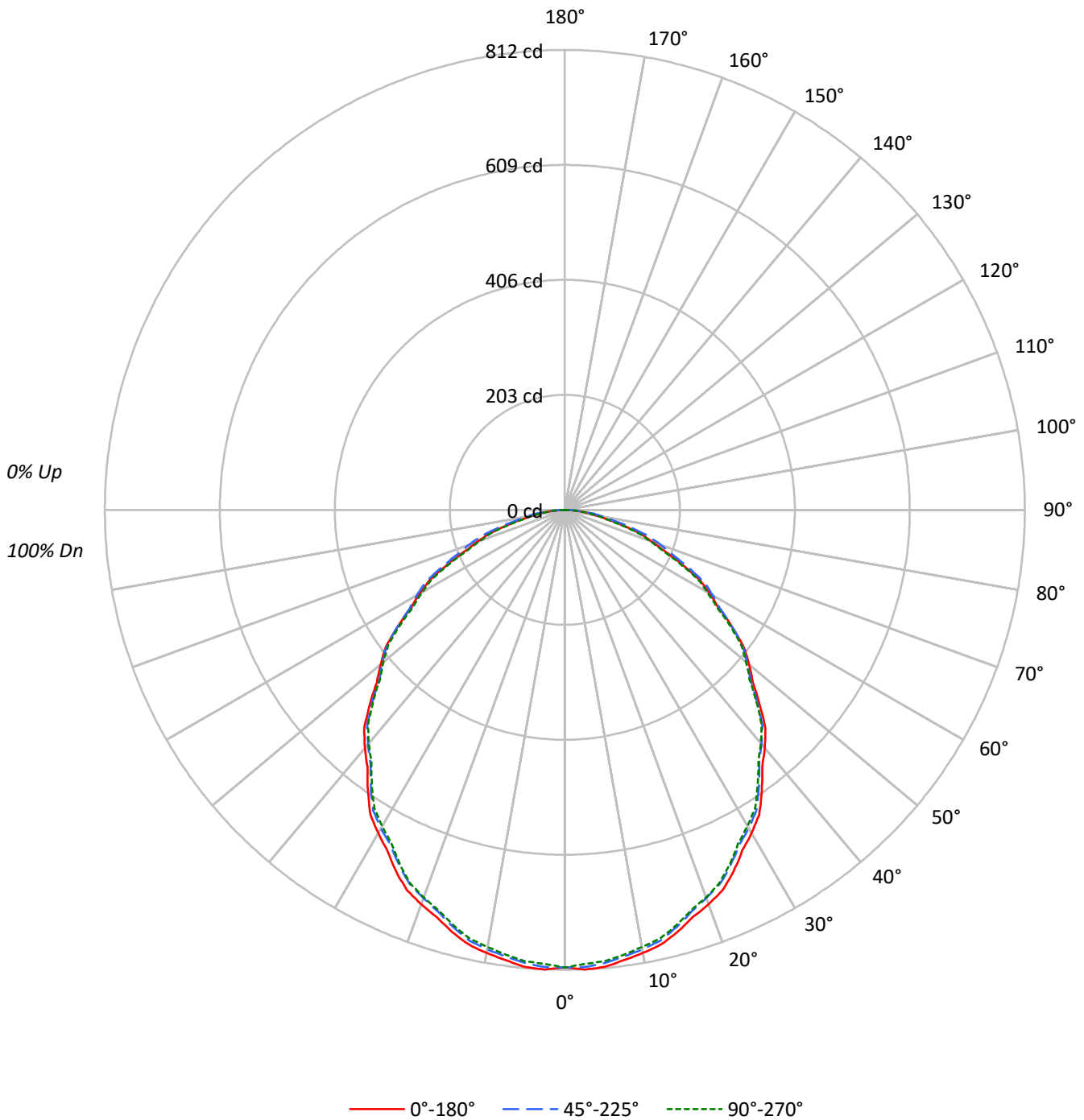
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7454	7454	7454
5°	7502	7442	7410
10°	7442	7382	7342
15°	7363	7282	7254
20°	7275	7163	7150
25°	7174	7044	7021
30°	7022	6916	6870
35°	6823	6726	6687
40°	6610	6507	6481
45°	6353	6269	6241
50°	6089	6038	5997
55°	5805	5805	5714
60°	5451	5556	5359
65°	4988	5237	4864
70°	4397	4821	4281
75°	3754	4313	3654
80°	2912	3629	2949
85°	1884	2784	2488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.7
10°-20°	214.8	10.4
20°-30°	318.6	15.5
30°-40°	372.8	18.1
40°-50°	371.1	18.1
50°-60°	320.5	15.6
60°-70°	230.7	11.2
70°-80°	121.0	5.9
80°-90°	30.0	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°	609.5	29.7
0°-40°	982.3	47.8
0°-60°	1673.9	81.4
0°-90°	2055.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2055.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	810	801	804	802	800	77
15°	771	761	762	761	760	217
25°	705	693	692	688	690	324
35°	606	597	597	592	594	379
45°	487	483	480	479	478	376
55°	361	360	361	356	355	322
65°	228	236	240	230	223	226
75°	105	115	121	113	102	113
85°	18	23	26	25	24	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.9	807.9	807.9	807.9	807.9
2.5°	812.5	805.8	807.9	806.1	802.2
5°	810.0	801.0	803.6	801.5	800.1
7.5°	801.8	793.4	795.4	793.1	792.2
10°	794.4	786.0	788.0	785.1	783.7
12.5°	785.8	776.9	778.9	776.0	775.2
15°	770.9	761.2	762.4	760.9	759.5
17.5°	753.5	743.6	743.8	741.6	741.3
20°	741.0	730.6	729.6	726.8	728.2
22.5°	727.3	716.3	715.4	711.4	713.4
25°	704.7	692.9	691.9	687.7	689.7
27.5°	678.5	666.8	666.8	660.9	663.1
30°	659.1	648.0	649.2	642.1	644.9
32.5°	638.6	628.6	629.2	622.2	625.0
35°	605.8	597.4	597.2	591.6	593.7
37.5°	572.2	564.8	563.6	560.4	560.9
40°	548.8	542.5	540.3	538.1	538.1
42.5°	524.3	518.6	516.3	514.8	514.2
45°	486.9	482.7	480.5	479.0	478.3
47.5°	449.9	446.0	444.0	443.0	442.3
50°	424.2	421.5	420.7	418.5	417.8
52.5°	398.6	396.9	396.2	393.5	392.8
55°	360.9	360.2	360.9	355.9	355.2
57.5°	321.6	322.7	325.0	318.3	316.6
60°	295.4	298.2	301.1	293.2	290.4
62.5°	268.6	273.1	277.2	268.1	264.2
65°	228.5	235.5	239.9	230.5	222.8
67.5°	189.8	198.4	203.7	193.6	184.9
70°	163.0	172.7	178.7	168.5	158.7
72.5°	139.7	150.5	155.3	145.7	136.0
75°	105.3	115.1	121.0	112.9	102.5
77.5°	74.7	83.9	88.8	81.8	73.2
80°	54.8	64.6	68.3	62.5	55.5
82.5°	38.9	46.9	49.5	46.0	41.3
85°	17.8	23.4	26.3	24.9	23.5
87.5°	4.6	8.5	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)