

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: P564811

Luminaire Tested: **SQ4-PW1-0U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564811  
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-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

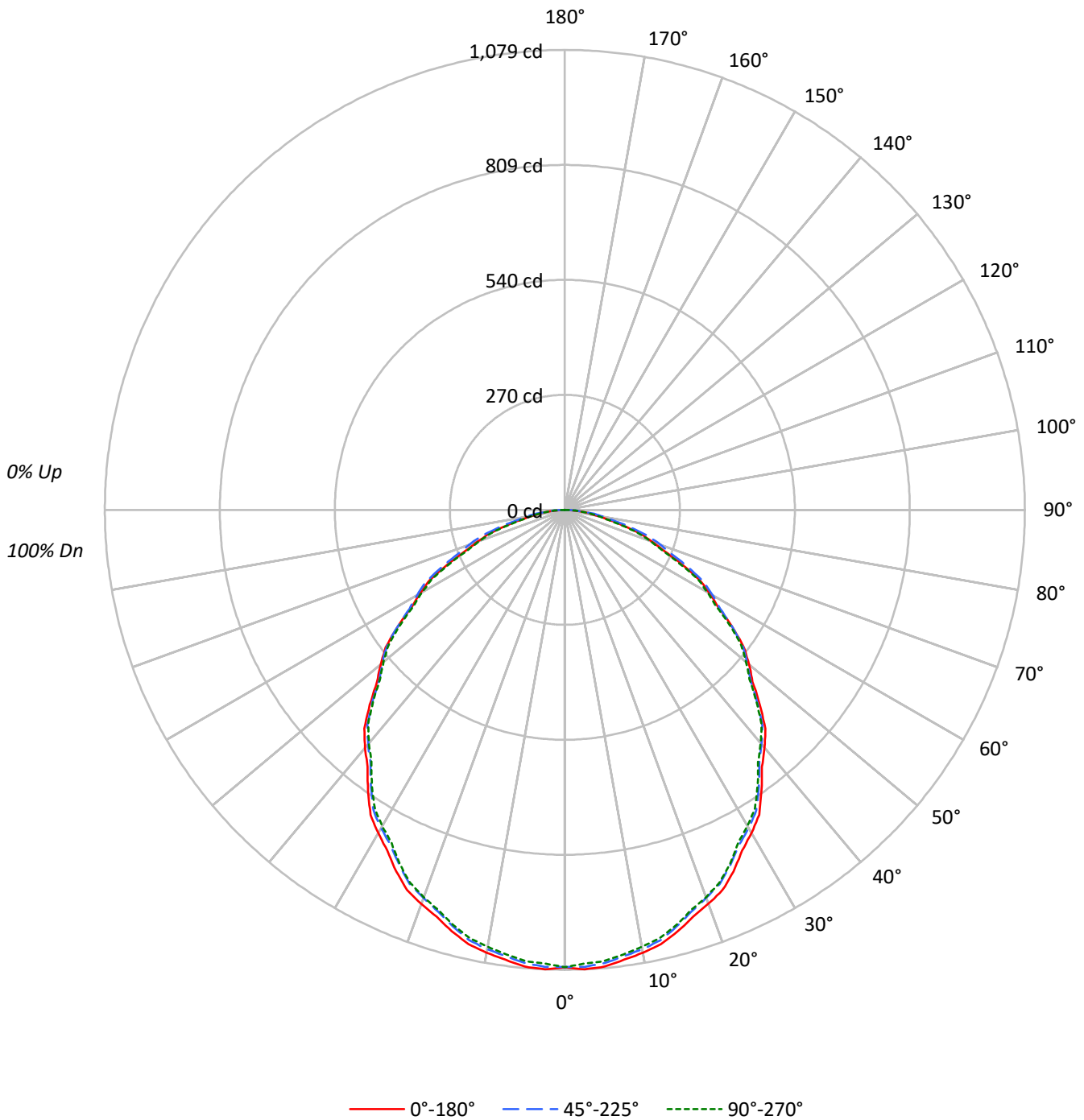
Lumens per Lamp: N/A  
Luminaire Lumens: 2729.8 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6352	6236	6217
30°	6217	6123	6082
35°	6041	5955	5920
40°	5852	5761	5739
45°	5624	5551	5525
50°	5391	5346	5310
55°	5140	5140	5058
60°	4826	4919	4745
65°	4416	4637	4307
70°	3893	4268	3791
75°	3325	3819	3234
80°	2579	3213	2611
85°	1666	2470	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	3.7
10°-20°	285.2	10.4
20°-30°	423.1	15.5
30°-40°	495.1	18.1
40°-50°	492.9	18.1
50°-60°	425.6	15.6
60°-70°	306.4	11.2
70°-80°	160.7	5.9
80°-90°	39.8	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°	809.4	29.6
0°-40°	1304.5	47.8
0°-60°	2222.9	81.4
0°-90°	2729.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2729.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1076	1064	1067	1064	1062	102
15°	1024	1011	1012	1010	1009	289
25°	936	920	919	913	916	430
35°	804	793	793	786	788	503
45°	647	641	638	636	635	499
55°	479	478	479	473	472	428
65°	303	313	319	306	296	301
75°	140	153	161	150	136	150
85°	24	31	35	33	31	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1079.0	1070.1	1072.9	1070.5	1065.4
5°	1075.8	1063.7	1067.3	1064.4	1062.5
7.5°	1064.8	1053.7	1056.3	1053.2	1052.1
10°	1055.0	1043.9	1046.5	1042.6	1040.8
12.5°	1043.6	1031.8	1034.4	1030.5	1029.4
15°	1023.8	1010.8	1012.4	1010.5	1008.6
17.5°	1000.7	987.6	987.8	984.8	984.4
20°	984.1	970.2	968.9	965.2	967.0
22.5°	965.9	951.3	950.0	944.8	947.4
25°	935.9	920.1	918.8	913.2	916.0
27.5°	901.1	885.5	885.6	877.7	880.6
30°	875.4	860.6	862.1	852.8	856.4
32.5°	848.1	834.8	835.7	826.3	830.0
35°	804.5	793.4	793.1	785.6	788.4
37.5°	759.8	750.0	748.5	744.2	744.9
40°	728.8	720.5	717.5	714.7	714.7
42.5°	696.3	688.7	685.7	683.6	682.9
45°	646.6	641.0	638.1	636.2	635.2
47.5°	597.4	592.3	589.7	588.3	587.4
50°	563.4	559.7	558.7	555.8	554.9
52.5°	529.4	527.2	526.2	522.5	521.6
55°	479.3	478.3	479.3	472.6	471.7
57.5°	427.1	428.6	431.6	422.7	420.5
60°	392.3	396.0	399.9	389.4	385.7
62.5°	356.8	362.7	368.1	356.1	350.9
65°	303.4	312.7	318.6	306.0	295.9
67.5°	252.0	263.5	270.5	257.1	245.6
70°	216.5	229.4	237.3	223.7	210.8
72.5°	185.5	199.9	206.3	193.5	180.6
75°	139.9	152.8	160.7	150.0	136.1
77.5°	99.3	111.5	118.0	108.6	97.2
80°	72.8	85.7	90.7	83.0	73.7
82.5°	51.6	62.3	65.8	61.1	54.8
85°	23.6	31.0	35.0	33.0	31.2
87.5°	6.0	11.2	14.4	14.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)