

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: P564865

Luminaire Tested: **SQ4-PW1-0U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564865  
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-100D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

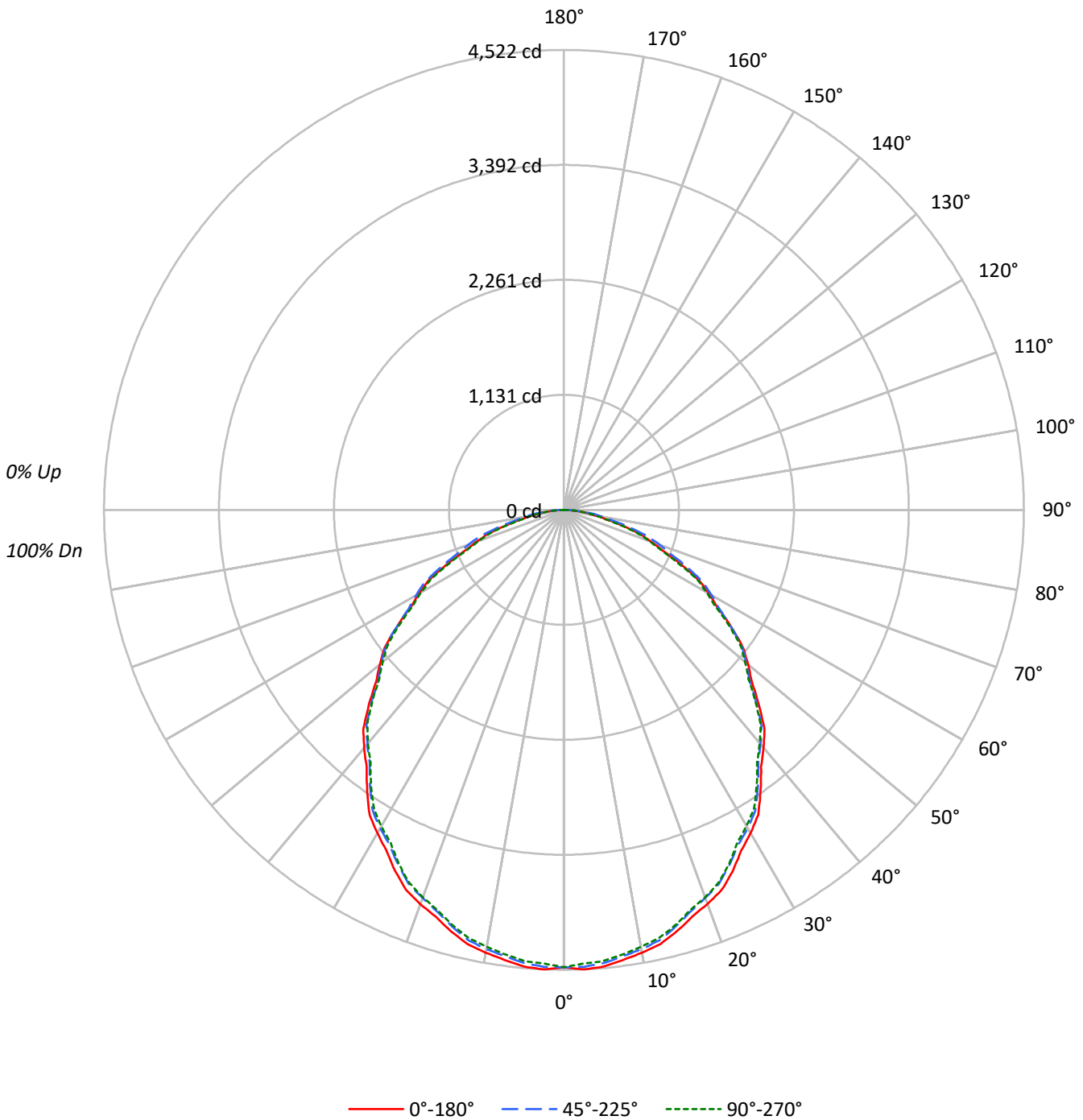
Lumens per Lamp: N/A  
Luminaire Lumens: 11441.4 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 108.2  
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°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13511	13460
20°	13499	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11632	11580
50°	11298	11203	11127
55°	10771	10771	10601
60°	10114	10308	9943
65°	9255	9716	9024
70°	8158	8942	7944
75°	6968	8003	6779
80°	5403	6737	5473
85°	3497	5173	4612



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.5	3.7
10°-20°	1195.5	10.4
20°-30°	1773.4	15.5
30°-40°	2075.0	18.1
40°-50°	2065.8	18.1
50°-60°	1783.9	15.6
60°-70°	1284.1	11.2
70°-80°	673.4	5.9
80°-90°	167.0	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°	3392.4	29.6
0°-40°	5467.4	47.8
0°-60°	9317.0	81.4
0°-90°	11441.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11441.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4497	4497	4497	4497	4497	
5°	4509	4458	4473	4461	4453	427
15°	4291	4237	4243	4235	4228	1209
25°	3922	3857	3851	3828	3839	1804
35°	3372	3325	3324	3293	3304	2108
45°	2710	2687	2674	2666	2662	2091
55°	2009	2005	2009	1981	1977	1792
65°	1272	1311	1335	1283	1240	1260
75°	586	641	674	629	570	629
85°	99	130	147	138	131	134
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4496.9	4496.9	4496.9	4496.9	4496.9
2.5°	4522.3	4485.1	4496.9	4486.9	4465.2
5°	4508.8	4458.5	4473.2	4461.1	4453.3
7.5°	4462.9	4416.4	4427.2	4414.4	4409.8
10°	4421.7	4375.2	4386.0	4370.0	4362.2
12.5°	4374.1	4324.5	4335.3	4319.3	4314.7
15°	4290.9	4236.7	4243.4	4235.3	4227.5
17.5°	4194.2	4139.2	4140.3	4127.6	4126.1
20°	4124.5	4066.4	4061.1	4045.4	4053.2
22.5°	4048.4	3987.2	3981.9	3959.9	3970.8
25°	3922.4	3856.6	3851.1	3827.6	3839.2
27.5°	3776.6	3711.5	3711.7	3678.7	3691.0
30°	3668.9	3606.9	3613.4	3574.1	3589.6
32.5°	3554.8	3499.0	3502.5	3463.2	3478.7
35°	3371.7	3325.2	3324.2	3292.7	3304.4
37.5°	3184.7	3143.6	3137.2	3119.0	3122.1
40°	3054.7	3019.9	3007.2	2995.3	2995.3
42.5°	2918.4	2886.7	2874.1	2865.3	2862.2
45°	2710.0	2686.8	2674.4	2666.4	2662.5
47.5°	2504.0	2482.3	2471.5	2465.9	2462.0
50°	2361.4	2345.9	2341.6	2329.6	2325.7
52.5°	2218.7	2209.5	2205.3	2190.1	2186.3
55°	2008.8	2004.9	2008.8	1980.9	1977.1
57.5°	1790.1	1796.3	1809.1	1771.6	1762.3
60°	1644.3	1659.7	1675.9	1632.0	1616.5
62.5°	1495.3	1520.1	1542.8	1492.4	1470.7
65°	1271.8	1310.6	1335.2	1282.7	1240.1
67.5°	1056.3	1104.3	1133.9	1077.4	1029.3
70°	907.3	961.5	994.5	937.8	883.5
72.5°	777.4	837.8	864.5	811.0	756.8
75°	586.4	640.6	673.5	628.6	570.5
77.5°	416.0	467.2	494.5	455.3	407.3
80°	305.1	359.3	380.4	347.8	309.0
82.5°	216.3	261.3	275.8	256.1	229.8
85°	99.1	130.0	146.6	138.5	130.7
87.5°	25.4	47.1	60.2	60.3	63.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)