

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: P564857

Luminaire Tested: **SQ4-PW1-0U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564857  
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-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

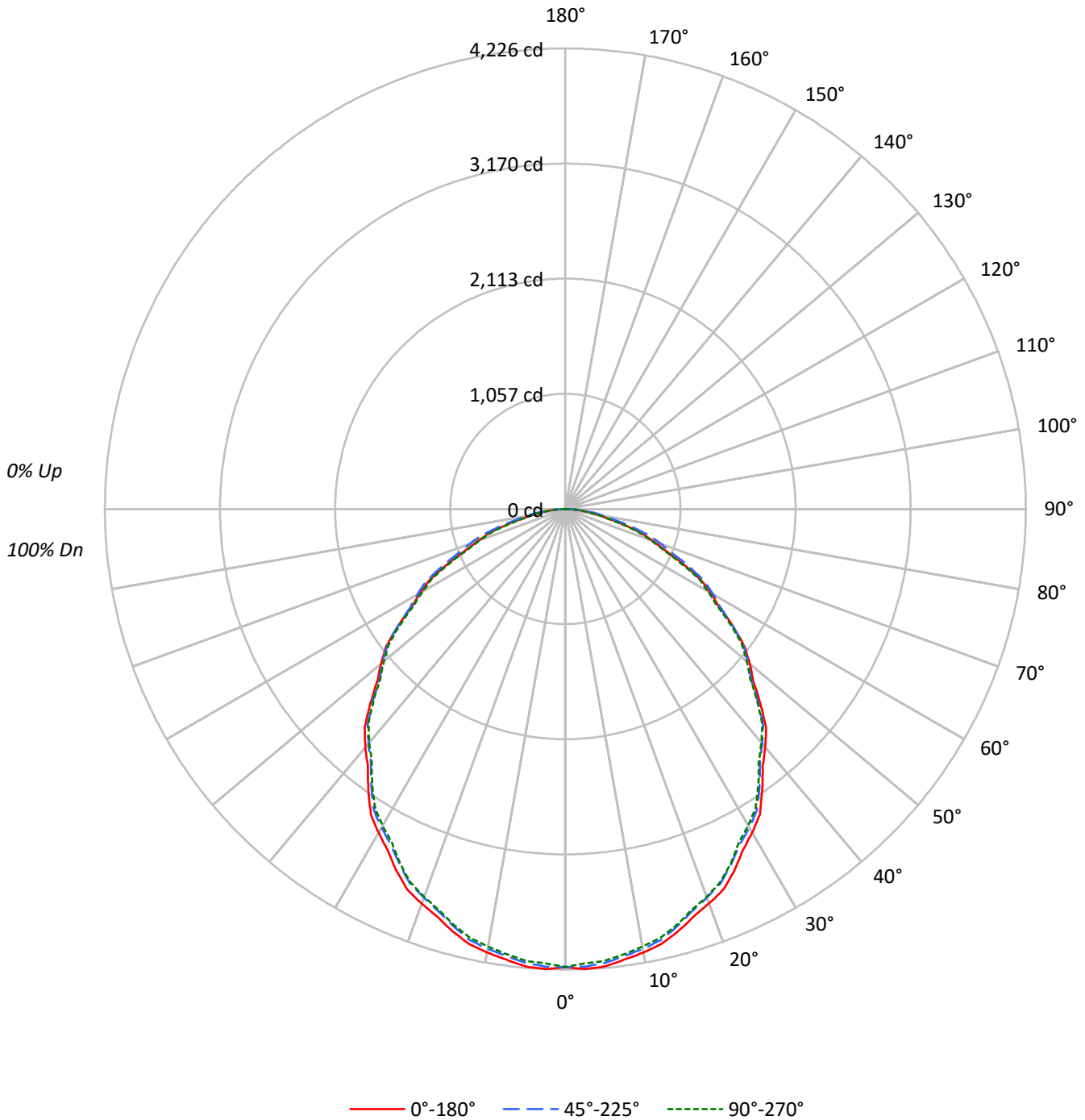
Lumens per Lamp: N/A  
Luminaire Lumens: 10691.9 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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°	12924	12924	12924
5°	13007	12905	12847
10°	12904	12800	12730
15°	12767	12625	12578
20°	12614	12421	12396
25°	12438	12212	12174
30°	12175	11991	11912
35°	11829	11663	11593
40°	11460	11282	11237
45°	11015	10870	10821
50°	10558	10469	10399
55°	10065	10065	9906
60°	9451	9633	9291
65°	8649	9080	8433
70°	7624	8356	7425
75°	6512	7479	6336
80°	5049	6294	5115
85°	3268	4834	4312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.7	3.7
10°-20°	1117.2	10.4
20°-30°	1657.2	15.5
30°-40°	1939.1	18.1
40°-50°	1930.4	18.1
50°-60°	1667.0	15.6
60°-70°	1199.9	11.2
70°-80°	629.3	5.9
80°-90°	156.0	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°	3170.1	29.6
0°-40°	5109.2	47.8
0°-60°	8706.7	81.4
0°-90°	10691.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10691.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4202	4202	4202	4202	4202	
5°	4213	4166	4180	4169	4162	399
15°	4010	3959	3965	3958	3951	1130
25°	3666	3604	3599	3577	3588	1685
35°	3151	3107	3106	3077	3088	1970
45°	2532	2511	2499	2492	2488	1954
55°	1877	1874	1877	1851	1848	1675
65°	1188	1225	1248	1199	1159	1178
75°	548	599	629	588	533	587
85°	93	122	137	129	122	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4202.3	4202.3	4202.3	4202.3	4202.3
2.5°	4226.0	4191.3	4202.3	4193.0	4172.7
5°	4213.4	4166.4	4180.1	4168.8	4161.6
7.5°	4170.5	4127.0	4137.2	4125.2	4120.9
10°	4132.0	4088.5	4098.7	4083.7	4076.4
12.5°	4087.6	4041.2	4051.3	4036.4	4032.0
15°	4009.8	3959.1	3965.4	3957.8	3950.6
17.5°	3919.5	3868.1	3869.1	3857.2	3855.8
20°	3854.3	3800.0	3795.1	3780.4	3787.7
22.5°	3783.2	3726.0	3721.0	3700.5	3710.6
25°	3665.5	3603.9	3598.8	3576.9	3587.7
27.5°	3529.2	3468.4	3468.5	3437.7	3449.2
30°	3428.5	3370.6	3376.7	3340.0	3354.5
32.5°	3321.9	3269.7	3273.0	3236.3	3250.8
35°	3150.8	3107.4	3106.4	3077.0	3087.9
37.5°	2976.1	2937.7	2931.6	2914.7	2917.6
40°	2854.6	2822.0	2810.2	2799.1	2799.1
42.5°	2727.3	2697.6	2685.8	2677.6	2674.7
45°	2532.5	2510.8	2499.2	2491.7	2488.1
47.5°	2340.0	2319.7	2309.6	2304.3	2300.7
50°	2206.7	2192.2	2188.2	2177.0	2173.4
52.5°	2073.4	2064.7	2060.8	2046.7	2043.0
55°	1877.2	1873.5	1877.2	1851.2	1847.5
57.5°	1672.8	1678.6	1690.6	1655.6	1646.9
60°	1536.5	1551.0	1566.2	1525.1	1510.6
62.5°	1397.3	1420.5	1441.8	1394.6	1374.4
65°	1188.5	1224.7	1247.7	1198.7	1158.9
67.5°	987.1	1032.0	1059.7	1006.8	961.9
70°	847.9	898.6	929.3	876.3	825.7
72.5°	726.4	782.9	807.9	757.9	707.2
75°	548.0	598.7	629.4	587.5	533.2
77.5°	388.8	436.5	462.1	425.5	380.6
80°	285.1	335.8	355.4	325.0	288.8
82.5°	202.2	244.2	257.7	239.4	214.7
85°	92.6	121.5	137.0	129.4	122.2
87.5°	23.7	44.0	56.3	56.3	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)