

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: P563544

Luminaire Tested: **SQ4-PP3-0U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563544  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-125D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

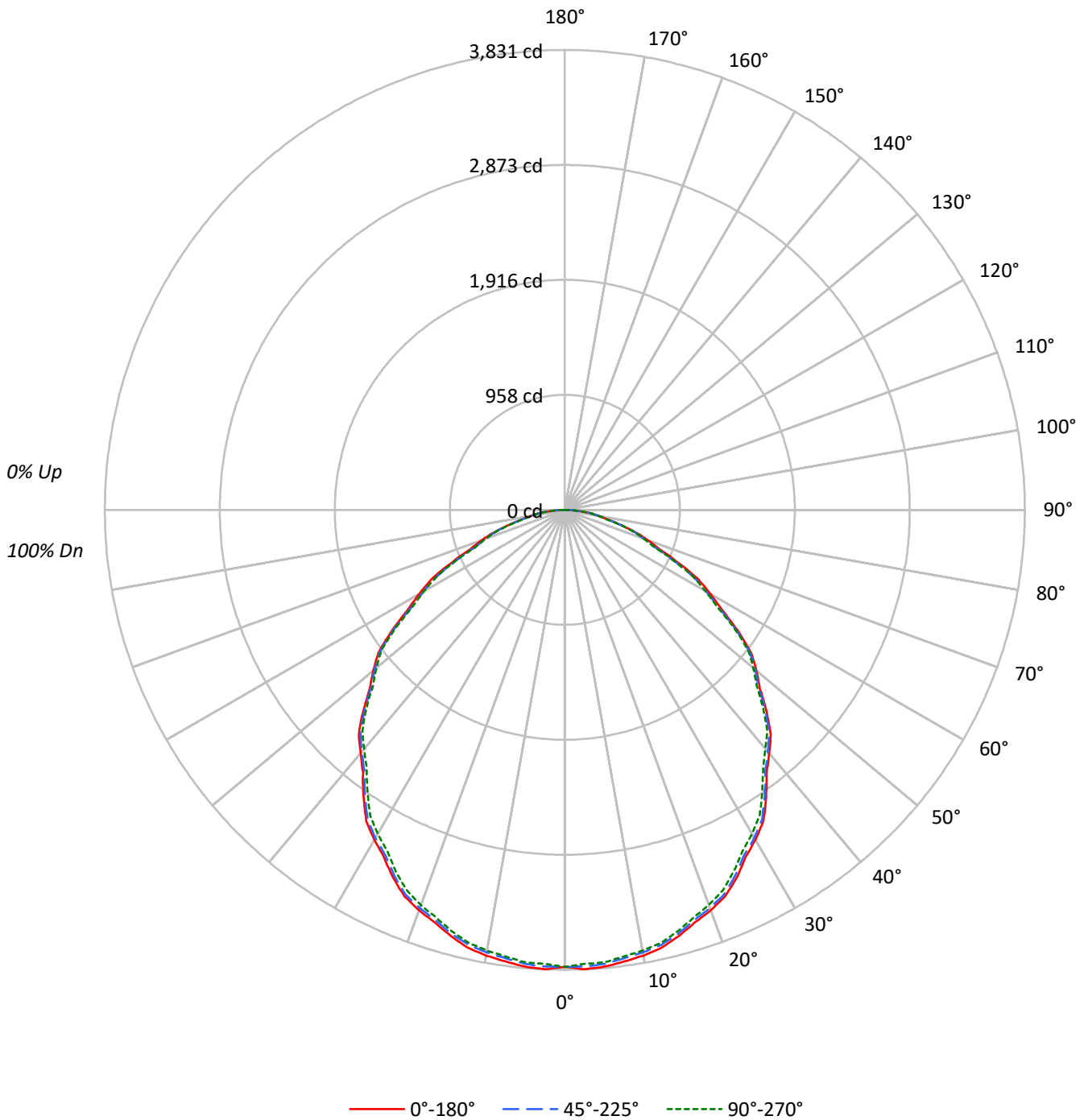
Lumens per Lamp: N/A  
Luminaire Lumens: 9743.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.1  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16346	16139
40°	15932	15832	15651
45°	15498	15389	15237
50°	14941	14845	14701
55°	14168	13980	13873
60°	12897	12528	12466
65°	11362	10889	10852
70°	9810	9405	9405
75°	8445	8325	8206
80°	7446	7534	7356
85°	5828	6357	6357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	3.7
10°-20°	1027.8	10.5
20°-30°	1539.5	15.8
30°-40°	1805.8	18.5
40°-50°	1811.5	18.6
50°-60°	1545.3	15.9
60°-70°	1007.8	10.3
70°-80°	505.6	5.2
80°-90°	139.9	1.4
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°	2927.3	30.0
0°-40°	4733.2	48.6
0°-60°	8089.9	83.0
0°-90°	9743.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9743.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3807	3807	3807	3807	3807	
5°	3820	3784	3797	3783	3783	363
15°	3673	3638	3653	3640	3633	1036
25°	3383	3344	3360	3330	3326	1556
35°	2923	2893	2903	2869	2866	1826
45°	2376	2359	2359	2336	2336	1829
55°	1762	1755	1738	1728	1725	1566
65°	1041	1021	998	991	994	1039
75°	474	474	467	464	460	514
85°	110	120	120	120	120	133
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3806.8	3806.8	3806.8	3806.8	3806.8
2.5°	3830.8	3799.5	3806.8	3801.1	3785.4
5°	3820.1	3784.3	3796.8	3783.4	3783.4
7.5°	3794.1	3755.0	3767.4	3754.1	3753.4
10°	3770.1	3730.9	3743.4	3730.0	3726.7
12.5°	3735.4	3696.2	3711.4	3695.3	3694.7
15°	3673.3	3637.5	3653.3	3639.8	3633.3
17.5°	3603.3	3564.1	3583.3	3564.5	3561.9
20°	3549.9	3510.7	3529.9	3503.2	3503.2
22.5°	3485.8	3446.7	3468.5	3433.8	3433.8
25°	3383.1	3343.9	3359.7	3329.6	3326.4
27.5°	3261.0	3222.5	3238.9	3204.9	3204.2
30°	3172.9	3137.0	3156.2	3119.4	3116.2
32.5°	3076.8	3043.5	3057.4	3020.7	3017.4
35°	2922.7	2893.3	2902.6	2869.2	2865.9
37.5°	2760.5	2730.5	2741.2	2712.4	2711.1
40°	2645.7	2626.2	2629.1	2605.6	2599.0
42.5°	2539.0	2516.8	2519.6	2496.2	2494.9
45°	2375.5	2359.2	2358.8	2335.5	2335.5
47.5°	2202.0	2189.6	2186.0	2166.6	2166.0
50°	2081.9	2072.1	2068.5	2051.8	2048.5
52.5°	1956.4	1951.9	1940.4	1926.4	1925.8
55°	1761.6	1755.1	1738.2	1728.2	1724.9
57.5°	1550.1	1537.0	1518.0	1503.4	1506.0
60°	1397.9	1384.9	1357.9	1351.2	1351.2
62.5°	1251.1	1235.5	1208.4	1199.2	1204.4
65°	1040.9	1021.4	997.6	991.0	994.2
67.5°	850.1	832.5	806.7	806.7	804.1
70°	727.3	717.5	697.3	697.3	697.3
72.5°	617.9	613.3	598.5	598.5	595.9
75°	473.8	473.8	467.1	463.7	460.4
77.5°	355.0	356.3	353.0	349.5	343.6
80°	280.3	286.8	283.6	280.2	276.9
82.5°	210.9	217.4	216.9	210.8	210.2
85°	110.1	119.9	120.1	120.1	120.1
87.5°	29.4	39.8	42.7	42.8	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)