

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521869

Luminaire Tested: **SQ4-WB-0U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521869  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-050D-93050-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

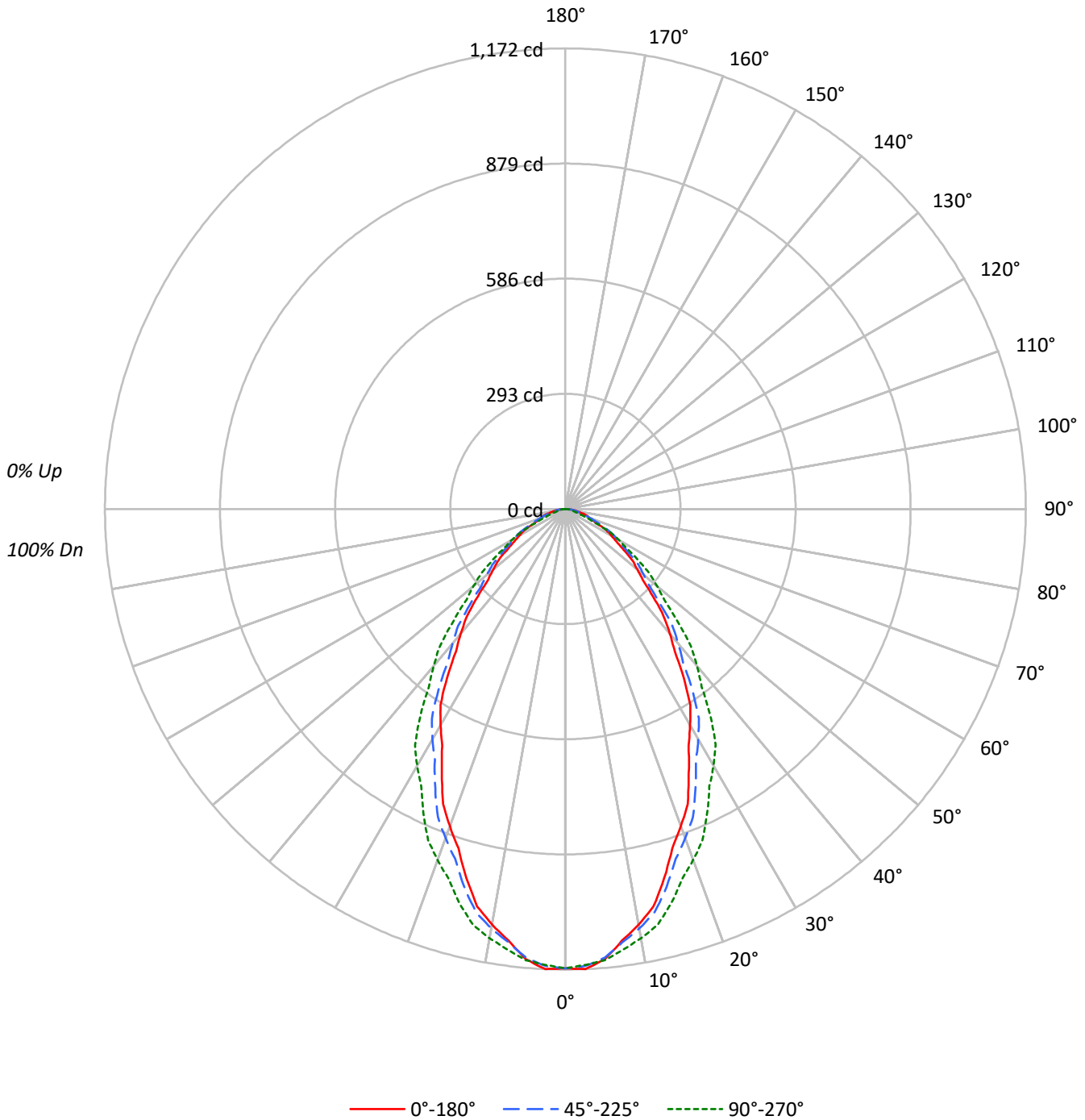
Lumens per Lamp: N/A  
Luminaire Lumens: 1703.7 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

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

	0°	45°	90°
0°	10787	10787	10787
5°	10653	10615	10677
10°	10065	10155	10392
15°	9291	9507	9933
20°	8437	8754	9333
25°	7568	7980	8696
30°	6766	7209	8034
35°	5917	6345	7251
40°	4980	5375	6277
45°	4110	4465	5241
50°	3432	3741	4366
55°	2913	3211	3606
60°	2489	2783	2879
65°	1982	2340	1860
70°	1759	1826	1136
75°	1629	1483	695
80°	1498	1365	600
85°	1355	1249	487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	6.3
10°-20°	278.9	16.4
20°-30°	361.3	21.2
30°-40°	353.8	20.8
40°-50°	270.8	15.9
50°-60°	180.5	10.6
60°-70°	98.5	5.8
70°-80°	41.0	2.4
80°-90°	11.6	0.7
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°	747.5	43.9
0°-40°	1101.3	64.6
0°-60°	1552.6	91.1
0°-90°	1703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1150	1139	1146	1149	1153	107
15°	973	969	995	1022	1040	272
25°	743	745	784	818	854	342
35°	525	528	563	601	644	327
45°	315	321	342	368	402	246
55°	181	189	200	207	224	164
65°	91	98	107	94	85	94
75°	46	46	42	28	20	49
85°	13	13	12	8	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.2	1169.2	1169.2	1169.2	1169.2
2.5°	1172.0	1161.6	1164.2	1164.2	1161.0
5°	1150.2	1138.7	1146.1	1148.7	1152.8
7.5°	1107.5	1098.8	1112.3	1122.4	1130.5
10°	1074.3	1066.7	1084.0	1098.6	1109.2
12.5°	1035.7	1029.4	1050.8	1070.4	1084.1
15°	972.7	969.2	995.3	1022.3	1039.9
17.5°	905.3	903.6	933.5	965.1	987.6
20°	859.3	858.8	891.6	924.5	950.6
22.5°	812.9	814.0	848.5	882.8	912.5
25°	743.4	745.4	783.9	818.1	854.2
27.5°	679.0	679.9	719.8	755.8	794.4
30°	635.1	637.6	676.7	714.0	754.1
32.5°	591.2	594.1	632.3	670.9	711.9
35°	525.3	527.8	563.3	601.2	643.8
37.5°	457.4	460.8	492.3	528.1	570.1
40°	413.5	418.5	446.3	480.1	521.2
42.5°	371.2	377.4	403.2	435.3	472.4
45°	315.0	321.0	342.2	368.1	401.7
47.5°	266.6	273.5	289.8	312.1	340.7
50°	239.1	245.6	260.6	277.1	304.2
52.5°	214.9	221.4	234.8	247.5	270.6
55°	181.1	188.6	199.6	207.1	224.2
57.5°	153.4	160.6	169.3	172.7	183.0
60°	134.9	143.0	150.8	150.4	156.0
62.5°	118.1	124.9	132.8	127.3	127.6
65°	90.8	98.3	107.2	93.7	85.2
67.5°	73.4	75.0	84.1	65.3	55.2
70°	65.2	65.2	67.7	50.6	42.1
72.5°	57.4	57.4	55.0	41.1	32.2
75°	45.7	45.7	41.6	28.5	19.5
77.5°	35.2	34.8	31.8	21.3	14.2
80°	28.2	28.2	25.7	16.8	11.3
82.5°	22.1	22.1	19.9	13.1	8.4
85°	12.8	12.8	11.8	7.6	4.6
87.5°	4.5	4.5	4.1	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)