

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: P521894

Luminaire Tested: **SQ4-WB-0U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521894  
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-100D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

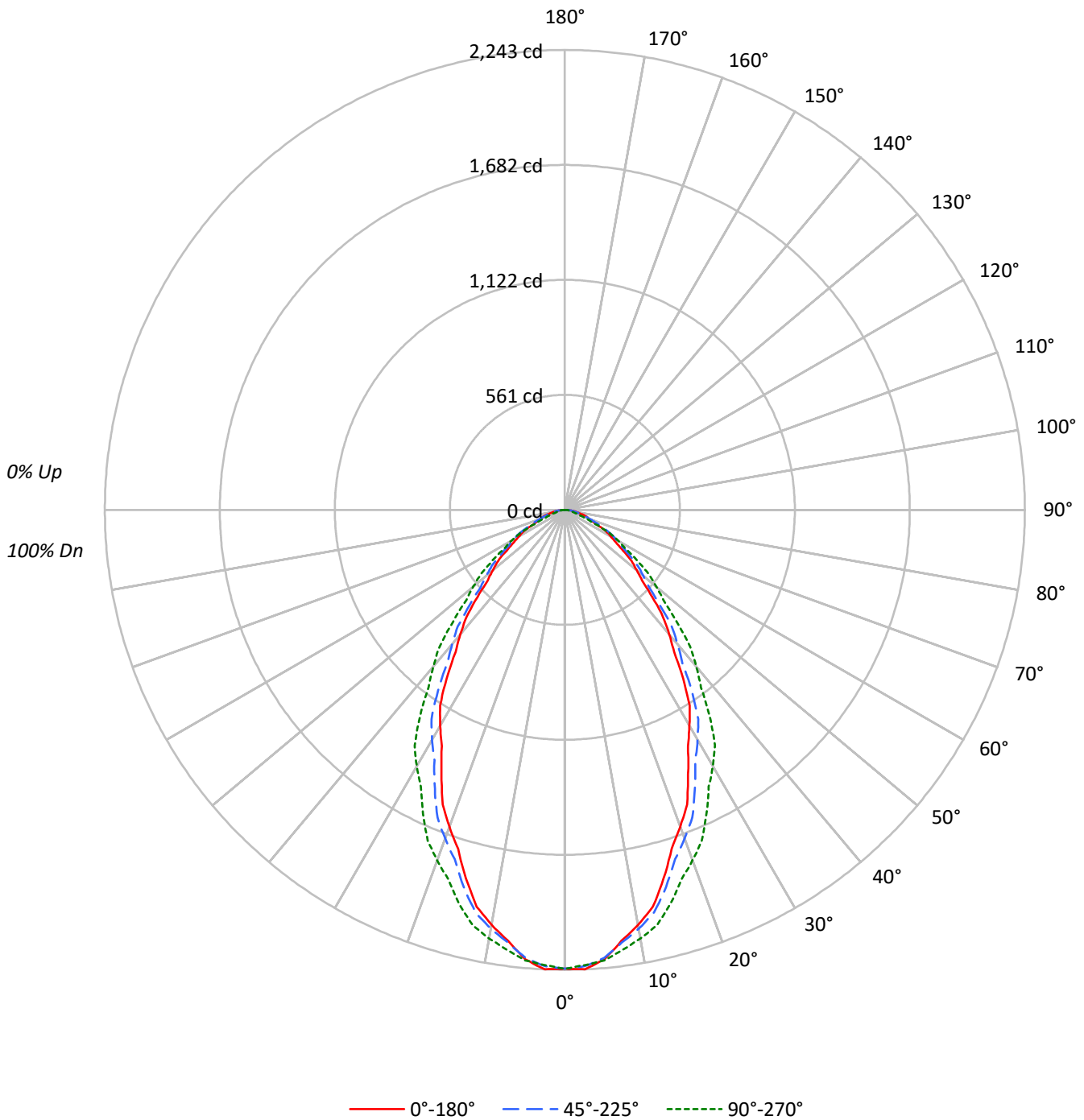
Lumens per Lamp: N/A  
Luminaire Lumens: 3260.7 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.5  
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°	20645	20645	20645
5°	20387	20315	20433
10°	19262	19437	19888
15°	17781	18194	19010
20°	16147	16755	17863
25°	14483	15273	16642
30°	12949	13797	15376
35°	11324	12143	13878
40°	9532	10288	12015
45°	7867	8545	10031
50°	6567	7159	8357
55°	5575	6143	6902
60°	4764	5327	5508
65°	3794	4480	3558
70°	3364	3496	2172
75°	3116	2834	1330
80°	2869	2609	1148
85°	2594	2392	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	6.3
10°-20°	533.9	16.4
20°-30°	691.5	21.2
30°-40°	677.1	20.8
40°-50°	518.3	15.9
50°-60°	345.4	10.6
60°-70°	188.5	5.8
70°-80°	78.5	2.4
80°-90°	22.2	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°	1430.6	43.9
0°-40°	2107.7	64.6
0°-60°	2971.4	91.1
0°-90°	3260.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3260.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2201	2179	2194	2199	2206	205
15°	1862	1855	1905	1957	1990	520
25°	1423	1427	1500	1566	1635	654
35°	1005	1010	1078	1151	1232	625
45°	603	614	655	704	769	470
55°	347	361	382	396	429	314
65°	174	188	205	179	163	181
75°	87	87	80	55	37	93
85°	24	24	23	15	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2243.2	2223.2	2228.2	2228.1	2222.0
5°	2201.3	2179.3	2193.5	2198.6	2206.2
7.5°	2119.6	2102.9	2128.9	2148.1	2163.6
10°	2056.0	2041.6	2074.7	2102.6	2122.8
12.5°	1982.2	1970.1	2011.1	2048.6	2074.9
15°	1861.6	1854.9	1904.8	1956.6	1990.2
17.5°	1732.6	1729.3	1786.6	1847.1	1890.1
20°	1644.6	1643.7	1706.5	1769.5	1819.4
22.5°	1555.9	1558.0	1624.0	1689.5	1746.3
25°	1422.7	1426.6	1500.3	1565.7	1634.8
27.5°	1299.6	1301.3	1377.6	1446.6	1520.3
30°	1215.5	1220.3	1295.1	1366.5	1443.3
32.5°	1131.5	1137.1	1210.2	1284.1	1362.4
35°	1005.4	1010.2	1078.1	1150.6	1232.2
37.5°	875.4	882.0	942.2	1010.8	1091.0
40°	791.4	801.0	854.2	918.9	997.6
42.5°	710.5	722.4	771.7	833.1	904.1
45°	602.9	614.4	654.9	704.5	768.8
47.5°	510.2	523.4	554.6	597.2	652.2
50°	457.5	470.0	498.8	530.4	582.2
52.5°	411.2	423.7	449.3	473.7	517.8
55°	346.6	361.0	381.9	396.4	429.1
57.5°	293.6	307.4	324.0	330.6	350.3
60°	258.2	273.6	288.7	287.9	298.5
62.5°	226.0	239.1	254.1	243.7	244.3
65°	173.8	188.2	205.2	179.3	163.0
67.5°	140.4	143.5	161.0	125.0	105.6
70°	124.7	124.7	129.6	96.8	80.5
72.5°	109.8	109.8	105.3	78.7	61.7
75°	87.4	87.4	79.5	54.6	37.3
77.5°	67.4	66.6	60.9	40.7	27.1
80°	54.0	54.0	49.1	32.2	21.6
82.5°	42.2	42.2	38.1	25.1	16.1
85°	24.5	24.5	22.6	14.6	8.8
87.5°	8.6	8.6	7.9	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)