

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: P519274

Luminaire Tested: **SQ4-WB-0U-050D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519274
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

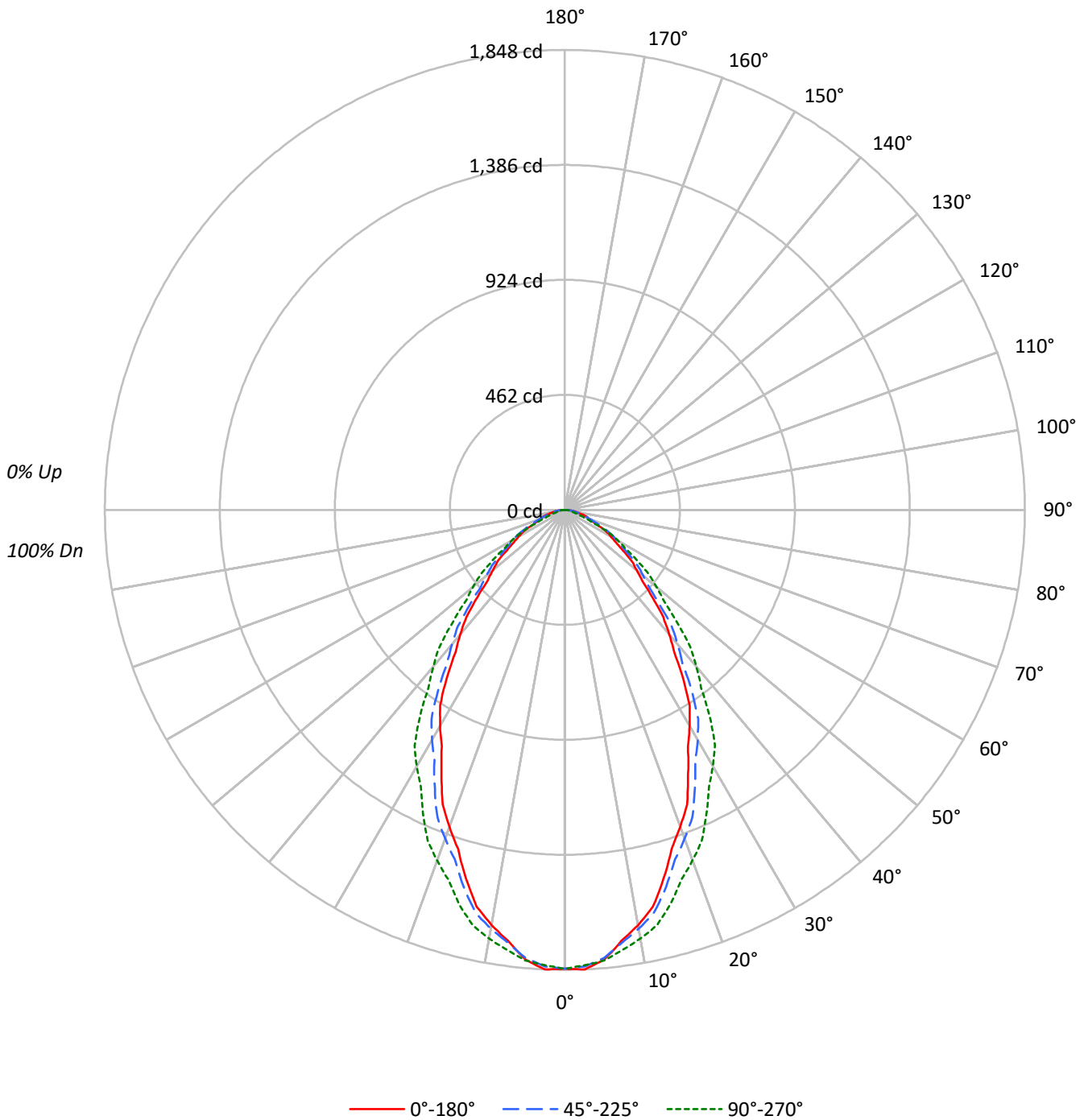
Lumens per Lamp: N/A
Luminaire Lumens: 2687.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8506	8506	8506
5°	8400	8370	8419
10°	7937	8008	8194
15°	7326	7497	7832
20°	6653	6903	7360
25°	5968	6293	6857
30°	5336	5685	6336
35°	4666	5003	5718
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2531	2844
60°	1963	2195	2270
65°	1563	1846	1466
70°	1387	1440	894
75°	1283	1167	547
80°	1182	1076	473
85°	1069	984	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	6.3
10°-20°	439.9	16.4
20°-30°	569.8	21.2
30°-40°	558.0	20.8
40°-50°	427.1	15.9
50°-60°	284.6	10.6
60°-70°	155.3	5.8
70°-80°	64.7	2.4
80°-90°	18.3	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°	1178.9	43.9
0°-40°	1736.9	64.6
0°-60°	2448.6	91.1
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1814	1796	1808	1812	1818	169
15°	1534	1528	1570	1612	1640	428
25°	1172	1176	1236	1290	1347	539
35°	828	832	888	948	1015	515
45°	497	506	540	580	634	387
55°	286	298	315	327	354	259
65°	143	155	169	148	134	149
75°	72	72	66	45	31	77
85°	20	20	19	12	7	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1848.5	1832.0	1836.2	1836.1	1831.0
5°	1814.0	1795.8	1807.5	1811.7	1818.0
7.5°	1746.7	1732.9	1754.3	1770.1	1782.9
10°	1694.3	1682.4	1709.6	1732.7	1749.3
12.5°	1633.4	1623.4	1657.2	1688.1	1709.8
15°	1534.0	1528.5	1569.7	1612.4	1640.0
17.5°	1427.7	1425.0	1472.2	1522.1	1557.5
20°	1355.2	1354.4	1406.2	1458.1	1499.3
22.5°	1282.1	1283.8	1338.2	1392.2	1439.1
25°	1172.4	1175.5	1236.3	1290.2	1347.1
27.5°	1070.9	1072.3	1135.2	1192.0	1252.8
30°	1001.7	1005.6	1067.2	1126.1	1189.4
32.5°	932.4	937.0	997.3	1058.1	1122.7
35°	828.5	832.5	888.4	948.2	1015.4
37.5°	721.4	726.8	776.4	832.9	899.1
40°	652.1	660.0	703.9	757.2	822.0
42.5°	585.5	595.3	636.0	686.5	745.0
45°	496.8	506.3	539.7	580.5	633.5
47.5°	420.4	431.3	457.0	492.2	537.4
50°	377.0	387.3	411.0	437.1	479.8
52.5°	338.9	349.1	370.2	390.3	426.7
55°	285.6	297.5	314.7	326.7	353.6
57.5°	241.9	253.3	267.0	272.4	288.7
60°	212.8	225.5	237.9	237.3	246.0
62.5°	186.3	197.0	209.4	200.8	201.3
65°	143.2	155.1	169.1	147.8	134.3
67.5°	115.7	118.2	132.7	103.0	87.1
70°	102.8	102.8	106.8	79.8	66.3
72.5°	90.5	90.5	86.7	64.9	50.8
75°	72.0	72.0	65.5	45.0	30.7
77.5°	55.5	54.9	50.2	33.6	22.3
80°	44.5	44.5	40.5	26.5	17.8
82.5°	34.8	34.8	31.4	20.7	13.3
85°	20.2	20.2	18.6	12.0	7.3
87.5°	7.1	7.1	6.5	3.9	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)