

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: P519271

Luminaire Tested: **SQ4-WB-0U-050D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519271
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-12
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

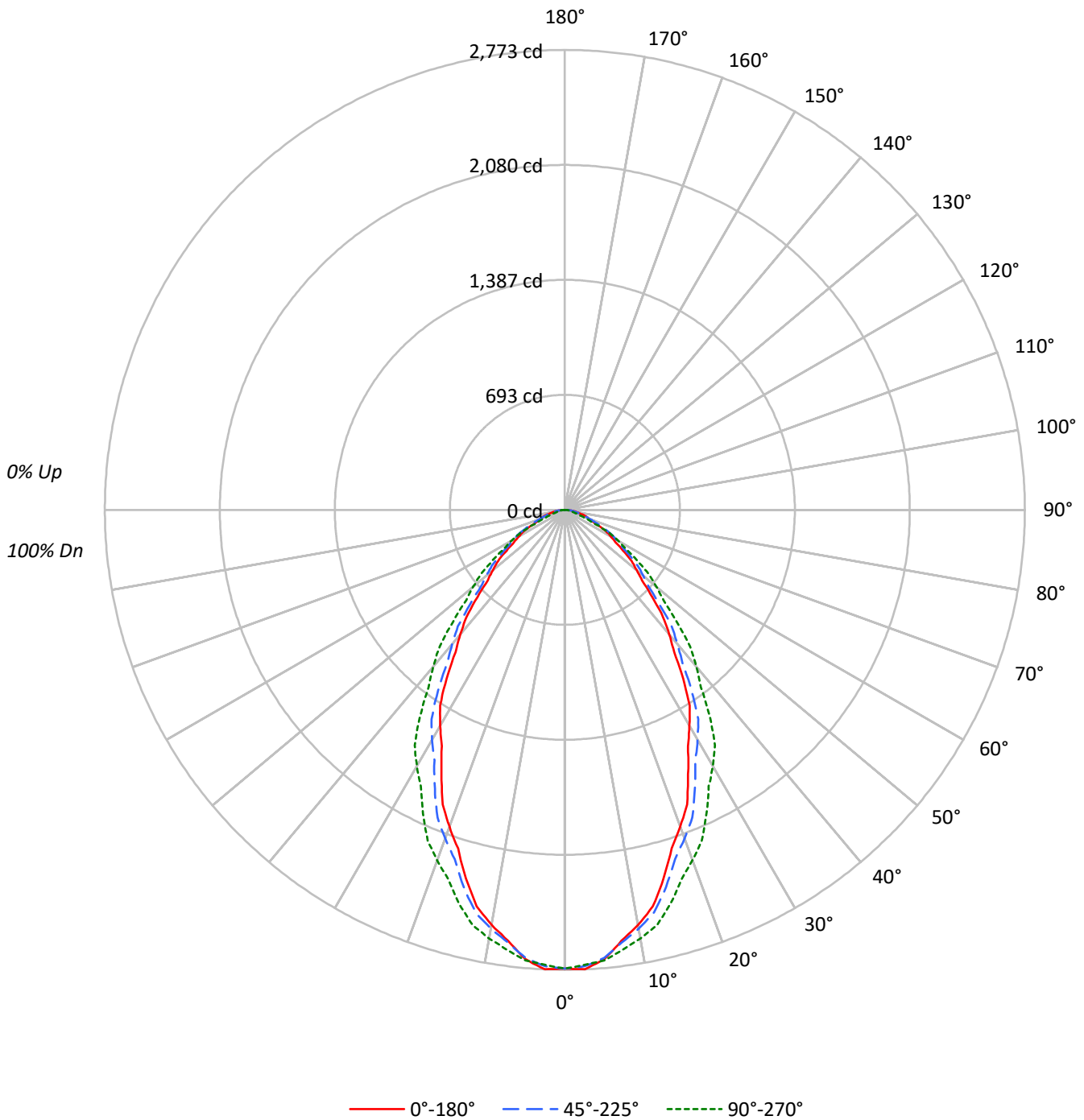
Lumens per Lamp: N/A
Luminaire Lumens: 4030.4 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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°	7936	8008	8194
15°	7326	7496	7833
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	2269
65°	1563	1846	1466
70°	1386	1440	895
75°	1283	1168	548
80°	1183	1075	473
85°	1069	984	385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	6.3
10°-20°	659.9	16.4
20°-30°	854.7	21.2
30°-40°	837.0	20.8
40°-50°	640.7	15.9
50°-60°	426.9	10.6
60°-70°	233.0	5.8
70°-80°	97.1	2.4
80°-90°	27.5	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°	1768.3	43.9
0°-40°	2605.3	64.6
0°-60°	3672.9	91.1
0°-90°	4030.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2721	2694	2711	2718	2727	253
15°	2301	2293	2354	2418	2460	643
25°	1759	1763	1854	1935	2021	809
35°	1243	1249	1333	1422	1523	773
45°	745	759	810	871	950	581
55°	428	446	472	490	530	388
65°	215	233	254	222	202	223
75°	108	108	98	68	46	115
85°	30	30	28	18	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2772.7	2748.0	2754.3	2754.1	2746.5
5°	2721.0	2693.7	2711.3	2717.6	2727.1
7.5°	2620.0	2599.4	2631.4	2655.2	2674.4
10°	2541.4	2523.6	2564.4	2599.0	2623.9
12.5°	2450.1	2435.2	2485.8	2532.2	2564.7
15°	2301.1	2292.8	2354.5	2418.5	2460.1
17.5°	2141.6	2137.6	2208.4	2283.1	2336.3
20°	2032.9	2031.7	2109.3	2187.2	2248.9
22.5°	1923.1	1925.8	2007.4	2088.3	2158.6
25°	1758.6	1763.3	1854.5	1935.3	2020.7
27.5°	1606.4	1608.5	1702.7	1788.1	1879.2
30°	1502.5	1508.4	1600.8	1689.1	1784.1
32.5°	1398.6	1405.5	1495.9	1587.2	1684.1
35°	1242.8	1248.7	1332.6	1422.3	1523.1
37.5°	1082.1	1090.2	1164.6	1249.4	1348.6
40°	978.2	990.1	1055.9	1135.8	1233.1
42.5°	878.2	892.9	953.9	1029.7	1117.5
45°	745.2	759.4	809.5	870.8	950.3
47.5°	630.6	647.0	685.5	738.2	806.1
50°	565.6	581.0	616.5	655.6	719.7
52.5°	508.3	523.7	555.4	585.5	640.1
55°	428.4	446.2	472.1	490.0	530.4
57.5°	362.9	380.0	400.5	408.6	433.0
60°	319.2	338.2	356.8	355.9	368.9
62.5°	279.4	295.5	314.1	301.2	302.0
65°	214.8	232.6	253.7	221.6	201.5
67.5°	173.6	177.3	199.0	154.6	130.6
70°	154.1	154.1	160.2	119.7	99.5
72.5°	135.7	135.7	130.1	97.3	76.2
75°	108.0	108.0	98.3	67.5	46.1
77.5°	83.3	82.3	75.2	50.3	33.5
80°	66.8	66.8	60.7	39.8	26.7
82.5°	52.2	52.2	47.1	31.1	19.9
85°	30.3	30.3	27.9	18.0	10.9
87.5°	10.7	10.7	9.7	5.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)