

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: P519320

Luminaire Tested: **SQ4-WB-0U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519320
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

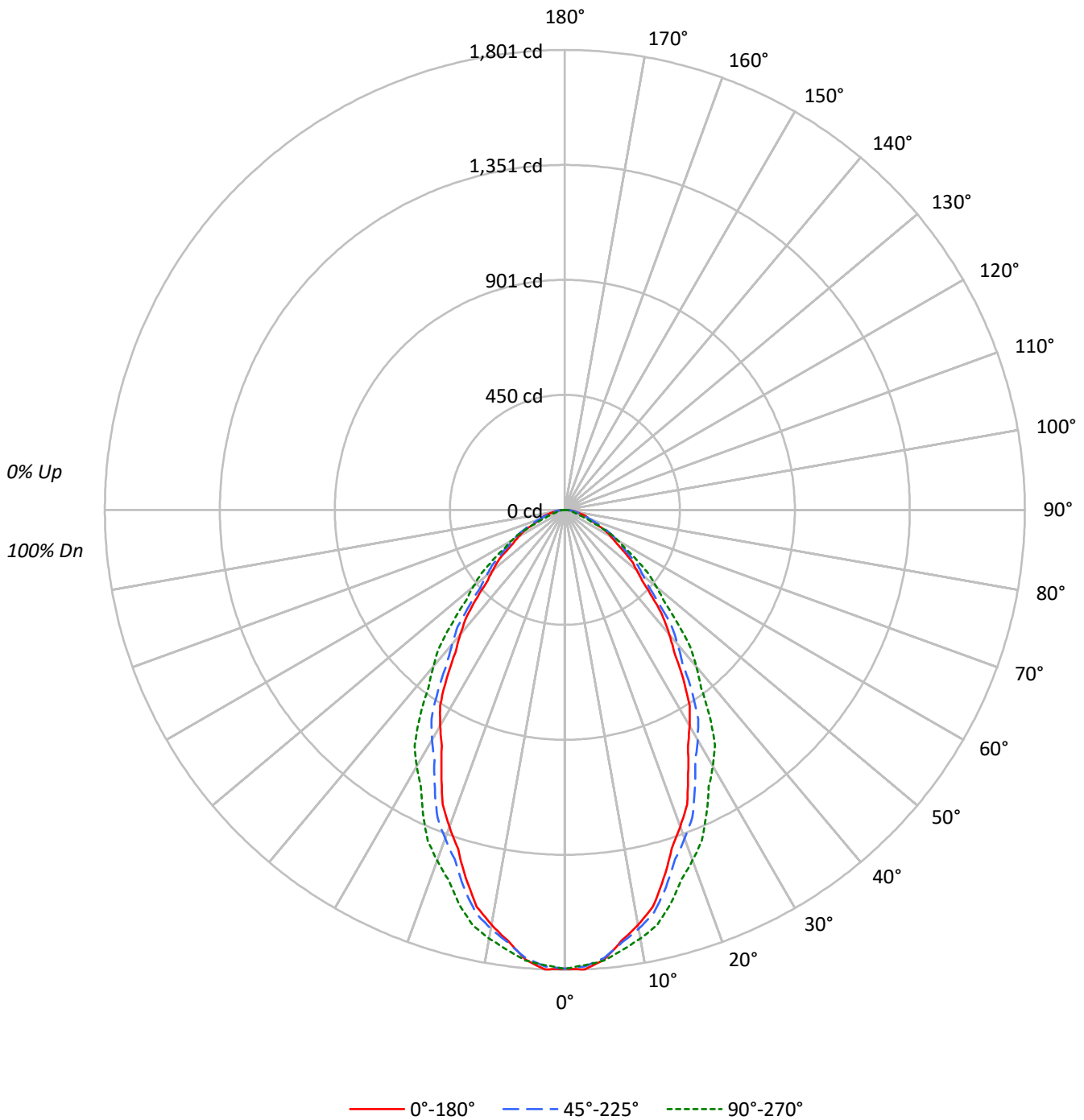
Lumens per Lamp: N/A
Luminaire Lumens: 2618.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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



TEST NUMBER: P519320
CATALOG NUMBER: SQ4-WB-0U-100D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519320

CATALOG NUMBER: SQ4-WB-OU-100D-930-1D-UNV-STD-W-4

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°	16579	16579	16579
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12966	13454	14345
25°	11630	12264	13364
30°	10399	11080	12347
35°	9094	9750	11145
40°	7654	8261	9648
45°	6316	6862	8054
50°	5273	5749	6710
55°	4477	4933	5541
60°	3827	4277	4423
65°	3048	3598	2858
70°	2700	2808	1745
75°	2502	2278	1069
80°	2306	2093	919
85°	2085	1916	752



TEST NUMBER: P519320

CATALOG NUMBER: SQ4-WB-OU-100D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	6.3
10°-20°	428.7	16.4
20°-30°	555.3	21.2
30°-40°	543.8	20.8
40°-50°	416.2	15.9
50°-60°	277.3	10.6
60°-70°	151.3	5.8
70°-80°	63.1	2.4
80°-90°	17.9	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°	1148.8	43.9
0°-40°	1692.5	64.6
0°-60°	2386.1	91.1
0°-90°	2618.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1768	1750	1761	1766	1772	164
15°	1495	1490	1530	1571	1598	417
25°	1142	1146	1205	1257	1313	525
35°	807	811	866	924	990	502
45°	484	493	526	566	617	378
55°	278	290	307	318	344	252
65°	140	151	165	144	131	145
75°	70	70	64	44	30	75
85°	20	20	18	12	7	22
90°	0	0	0	0	0	



TEST NUMBER: P519320

CATALOG NUMBER: SQ4-WB-OU-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1801.3	1785.2	1789.3	1789.2	1784.2
5°	1767.7	1749.9	1761.4	1765.5	1771.6
7.5°	1702.1	1688.7	1709.5	1724.9	1737.4
10°	1651.0	1639.4	1666.0	1688.4	1704.6
12.5°	1591.7	1582.0	1614.9	1645.0	1666.1
15°	1494.9	1489.5	1529.6	1571.2	1598.2
17.5°	1391.3	1388.7	1434.6	1483.2	1517.7
20°	1320.6	1319.9	1370.3	1420.9	1461.0
22.5°	1249.4	1251.1	1304.1	1356.7	1402.3
25°	1142.4	1145.5	1204.7	1257.2	1312.8
27.5°	1043.6	1045.0	1106.2	1161.6	1220.8
30°	976.1	979.9	1040.0	1097.3	1159.0
32.5°	908.6	913.1	971.8	1031.1	1094.0
35°	807.4	811.2	865.7	924.0	989.5
37.5°	703.0	708.2	756.6	811.7	876.1
40°	635.5	643.2	685.9	737.8	801.1
42.5°	570.5	580.1	619.7	668.9	726.0
45°	484.1	493.4	525.9	565.7	617.3
47.5°	409.7	420.3	445.3	479.6	523.7
50°	367.4	377.4	400.5	425.9	467.5
52.5°	330.2	340.2	360.8	380.4	415.8
55°	278.3	289.9	306.7	318.3	344.5
57.5°	235.7	246.8	260.2	265.4	281.3
60°	207.4	219.7	231.8	231.2	239.7
62.5°	181.5	192.0	204.0	195.7	196.2
65°	139.6	151.1	164.8	144.0	130.9
67.5°	112.7	115.2	129.3	100.4	84.8
70°	100.1	100.1	104.1	77.8	64.7
72.5°	88.1	88.1	84.5	63.2	49.5
75°	70.2	70.2	63.9	43.8	30.0
77.5°	54.1	53.5	48.9	32.7	21.8
80°	43.4	43.4	39.4	25.8	17.3
82.5°	33.9	33.9	30.6	20.2	12.9
85°	19.7	19.7	18.1	11.7	7.1
87.5°	6.9	6.9	6.3	3.8	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)