

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: P564821

Luminaire Tested: **SQ4-PW1-0U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564821
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

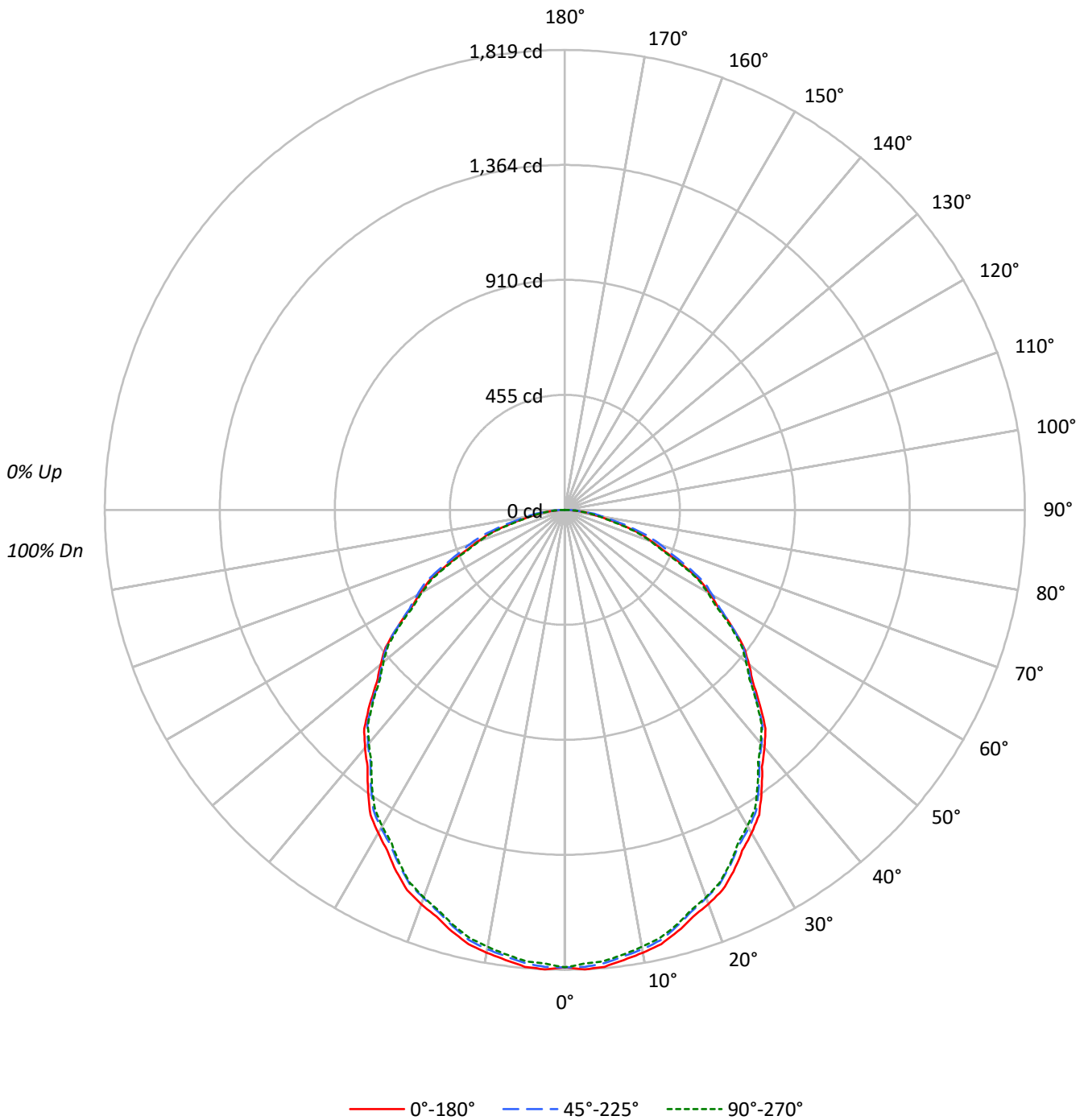
Lumens per Lamp: N/A
Luminaire Lumens: 4602.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5564	5564	5564
5°	5600	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5241	5162	5128
35°	5092	5021	4991
40°	4934	4857	4838
45°	4742	4679	4659
50°	4545	4507	4476
55°	4333	4333	4265
60°	4069	4147	4000
65°	3723	3908	3631
70°	3282	3598	3196
75°	2803	3220	2727
80°	2173	2710	2201
85°	1404	2082	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.7
10°-20°	481.0	10.4
20°-30°	713.4	15.5
30°-40°	834.8	18.1
40°-50°	831.0	18.1
50°-60°	717.6	15.6
60°-70°	516.6	11.2
70°-80°	270.9	5.9
80°-90°	67.1	1.5
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°	1364.7	29.7
0°-40°	2199.5	47.8
0°-60°	3748.1	81.4
0°-90°	4602.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1814	1794	1800	1795	1792	172
15°	1726	1704	1707	1704	1701	487
25°	1578	1552	1549	1540	1544	726
35°	1356	1338	1337	1325	1329	848
45°	1090	1081	1076	1073	1071	841
55°	808	806	808	797	795	721
65°	512	527	537	516	499	507
75°	236	258	271	253	230	253
85°	40	52	59	56	53	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.1	1809.1	1809.1	1809.1	1809.1
2.5°	1819.3	1804.3	1809.1	1805.0	1796.3
5°	1813.9	1793.6	1799.5	1794.7	1791.5
7.5°	1795.4	1776.7	1781.0	1775.9	1774.0
10°	1778.8	1760.1	1764.4	1758.0	1754.9
12.5°	1759.7	1739.7	1744.0	1737.6	1735.8
15°	1726.2	1704.4	1707.1	1703.8	1700.7
17.5°	1687.3	1665.2	1665.6	1660.5	1659.9
20°	1659.2	1635.9	1633.7	1627.4	1630.6
22.5°	1628.6	1604.0	1601.9	1593.0	1597.4
25°	1578.0	1551.5	1549.3	1539.8	1544.5
27.5°	1519.3	1493.1	1493.2	1479.9	1484.9
30°	1475.9	1451.0	1453.6	1437.8	1444.1
32.5°	1430.0	1407.6	1409.0	1393.2	1399.4
35°	1356.4	1337.7	1337.3	1324.6	1329.3
37.5°	1281.2	1264.7	1262.0	1254.7	1256.0
40°	1228.9	1214.9	1209.8	1205.0	1205.0
42.5°	1174.1	1161.3	1156.2	1152.7	1151.4
45°	1090.2	1080.9	1075.9	1072.7	1071.1
47.5°	1007.3	998.6	994.3	992.0	990.4
50°	950.0	943.7	942.0	937.2	935.6
52.5°	892.6	888.8	887.2	881.1	879.5
55°	808.1	806.5	808.1	796.9	795.4
57.5°	720.1	722.6	727.8	712.7	709.0
60°	661.5	667.7	674.2	656.5	650.3
62.5°	601.5	611.5	620.7	600.4	591.7
65°	511.6	527.2	537.1	516.0	498.9
67.5°	424.9	444.3	456.2	433.4	414.1
70°	365.0	386.8	400.1	377.3	355.4
72.5°	312.7	337.0	347.8	326.3	304.4
75°	235.9	257.7	271.0	252.9	229.5
77.5°	167.4	187.9	198.9	183.2	163.9
80°	122.7	144.5	153.0	139.9	124.3
82.5°	87.0	105.1	110.9	103.0	92.4
85°	39.8	52.3	59.0	55.7	52.6
87.5°	10.2	18.9	24.2	24.3	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)