

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: P563485

Luminaire Tested: **SQ4-PP3-0U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563485
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.5 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

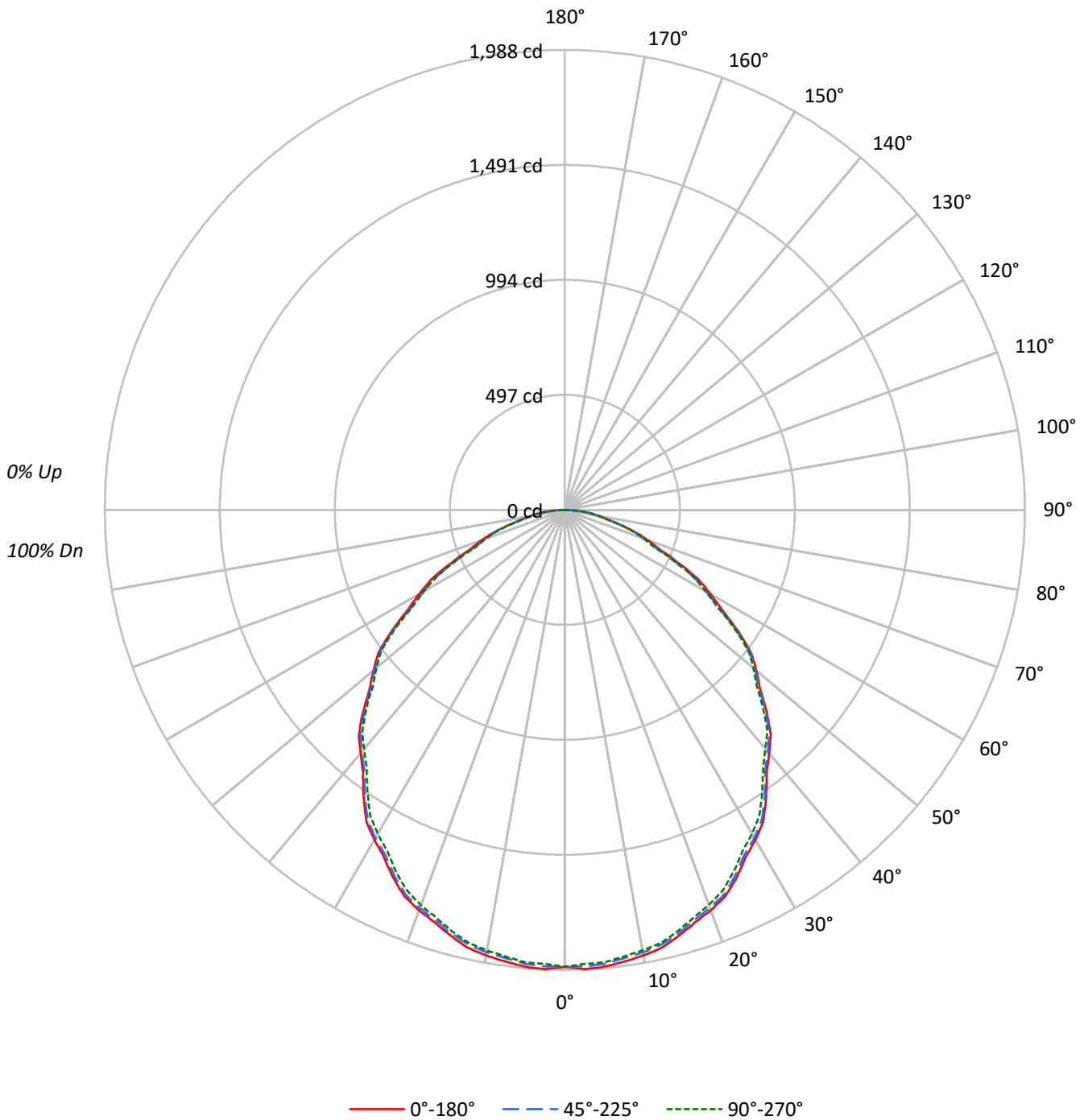
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6065	6039
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5323	5270
50°	5168	5135	5085
55°	4901	4836	4799
60°	4461	4334	4312
65°	3930	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2575	2605	2545
85°	2015	2198	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.7
10°-20°	533.3	10.5
20°-30°	798.8	15.8
30°-40°	937.0	18.5
40°-50°	939.9	18.6
50°-60°	801.8	15.9
60°-70°	522.9	10.3
70°-80°	262.4	5.2
80°-90°	72.6	1.4
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°	1518.9	30.0
0°-40°	2455.9	48.6
0°-60°	4197.6	83.0
0°-90°	5055.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1982	1964	1970	1963	1963	188
15°	1906	1887	1896	1889	1885	538
25°	1755	1735	1743	1728	1726	807
35°	1516	1501	1506	1489	1487	947
45°	1233	1224	1224	1212	1212	949
55°	914	911	902	897	895	812
65°	540	530	518	514	516	539
75°	246	246	242	241	239	267
85°	57	62	62	62	62	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1987.7	1971.4	1975.2	1972.3	1964.2
5°	1982.2	1963.5	1970.0	1963.1	1963.1
7.5°	1968.7	1948.3	1954.8	1947.9	1947.5
10°	1956.2	1935.9	1942.3	1935.4	1933.7
12.5°	1938.2	1917.9	1925.7	1917.4	1917.1
15°	1906.0	1887.4	1895.6	1888.6	1885.2
17.5°	1869.6	1849.3	1859.2	1849.5	1848.2
20°	1841.9	1821.6	1831.5	1817.7	1817.7
22.5°	1808.7	1788.4	1799.7	1781.7	1781.7
25°	1755.4	1735.1	1743.3	1727.6	1725.9
27.5°	1692.0	1672.0	1680.6	1662.9	1662.6
30°	1646.3	1627.7	1637.7	1618.6	1616.9
32.5°	1596.5	1579.2	1586.4	1567.3	1565.6
35°	1516.5	1501.2	1506.1	1488.7	1487.1
37.5°	1432.3	1416.8	1422.3	1407.4	1406.7
40°	1372.8	1362.6	1364.1	1351.9	1348.6
42.5°	1317.4	1305.9	1307.4	1295.2	1294.5
45°	1232.6	1224.1	1223.9	1211.8	1211.8
47.5°	1142.6	1136.1	1134.2	1124.2	1123.9
50°	1080.2	1075.2	1073.3	1064.6	1062.9
52.5°	1015.1	1012.8	1006.8	999.6	999.2
55°	914.0	910.7	901.9	896.7	895.0
57.5°	804.3	797.5	787.7	780.1	781.4
60°	725.3	718.6	704.6	701.1	701.1
62.5°	649.2	641.1	627.0	622.2	624.9
65°	540.1	530.0	517.6	514.2	515.9
67.5°	441.1	432.0	418.6	418.6	417.2
70°	377.4	372.3	361.8	361.8	361.8
72.5°	320.6	318.2	310.6	310.5	309.2
75°	245.8	245.8	242.4	240.6	238.9
77.5°	184.2	184.9	183.2	181.4	178.3
80°	145.4	148.8	147.1	145.4	143.7
82.5°	109.4	112.8	112.5	109.4	109.1
85°	57.1	62.2	62.3	62.3	62.3
87.5°	15.2	20.7	22.2	22.2	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)