

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: P563481

Luminaire Tested: **SQ4-PP3-0U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563481
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5081.3 lumens
Efficiency: N/A
Efficacy: 95.2 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

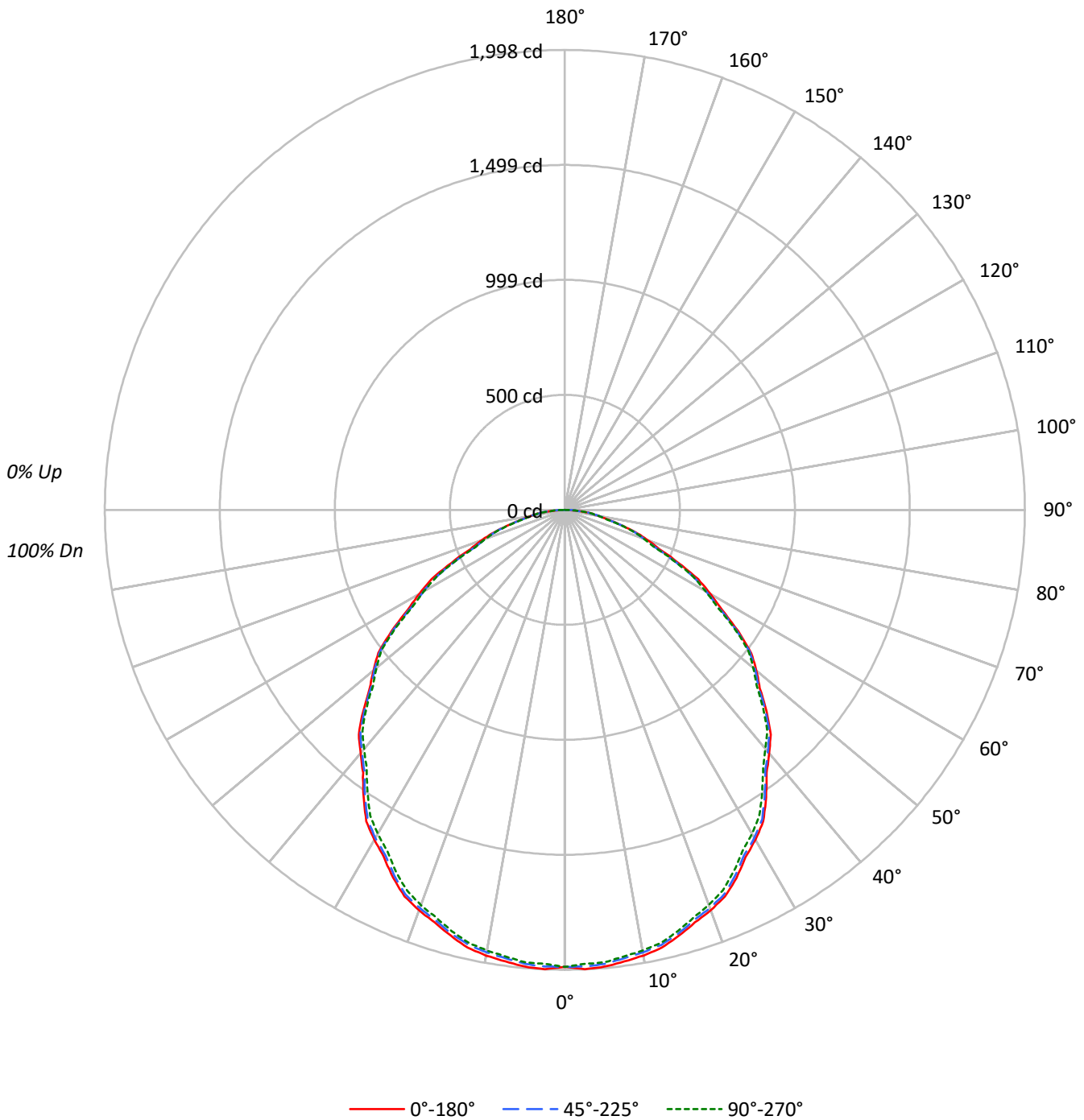
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5504	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4860	4823
60°	4485	4356	4334
65°	3951	3786	3773
70°	3411	3270	3270
75°	2936	2895	2853
80°	2589	2619	2557
85°	2025	2209	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	3.7
10°-20°	536.0	10.5
20°-30°	802.9	15.8
30°-40°	941.8	18.5
40°-50°	944.7	18.6
50°-60°	805.9	15.9
60°-70°	525.6	10.3
70°-80°	263.7	5.2
80°-90°	73.0	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°	1526.7	30.0
0°-40°	2468.4	48.6
0°-60°	4219.1	83.0
0°-90°	5081.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5081.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1992	1974	1980	1973	1973	189
15°	1916	1897	1905	1898	1895	540
25°	1764	1744	1752	1736	1735	811
35°	1524	1509	1514	1496	1495	952
45°	1239	1230	1230	1218	1218	954
55°	919	915	906	901	900	816
65°	543	533	520	517	518	542
75°	247	247	244	242	240	268
85°	57	62	63	63	63	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	1997.8	1981.5	1985.3	1982.3	1974.2
5°	1992.3	1973.6	1980.1	1973.1	1973.1
7.5°	1978.7	1958.3	1964.8	1957.8	1957.5
10°	1966.2	1945.8	1952.3	1945.3	1943.6
12.5°	1948.1	1927.7	1935.6	1927.2	1926.9
15°	1915.7	1897.0	1905.3	1898.2	1894.8
17.5°	1879.2	1858.8	1868.7	1859.0	1857.6
20°	1851.3	1830.9	1840.9	1827.0	1827.0
22.5°	1817.9	1797.5	1808.9	1790.8	1790.8
25°	1764.3	1743.9	1752.2	1736.5	1734.8
27.5°	1700.7	1680.6	1689.2	1671.4	1671.1
30°	1654.7	1636.0	1646.0	1626.8	1625.1
32.5°	1604.6	1587.3	1594.5	1575.3	1573.6
35°	1524.2	1508.9	1513.8	1496.3	1494.6
37.5°	1439.7	1424.0	1429.6	1414.6	1413.9
40°	1379.8	1369.6	1371.1	1358.8	1355.4
42.5°	1324.1	1312.6	1314.0	1301.8	1301.2
45°	1238.9	1230.4	1230.2	1218.0	1218.0
47.5°	1148.4	1141.9	1140.0	1129.9	1129.6
50°	1085.7	1080.6	1078.8	1070.0	1068.3
52.5°	1020.3	1017.9	1012.0	1004.7	1004.3
55°	918.7	915.3	906.5	901.3	899.6
57.5°	808.4	801.6	791.7	784.1	785.4
60°	729.1	722.2	708.2	704.7	704.7
62.5°	652.5	644.3	630.2	625.4	628.1
65°	542.9	532.7	520.3	516.8	518.5
67.5°	443.3	434.2	420.7	420.7	419.3
70°	379.3	374.2	363.7	363.7	363.7
72.5°	322.2	319.9	312.2	312.1	310.8
75°	247.1	247.1	243.6	241.8	240.1
77.5°	185.1	185.8	184.1	182.3	179.2
80°	146.2	149.6	147.9	146.1	144.4
82.5°	110.0	113.4	113.1	110.0	109.6
85°	57.4	62.5	62.6	62.6	62.6
87.5°	15.3	20.8	22.3	22.3	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)