

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: P520145

Luminaire Tested: **SQ4-F-0U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520145
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

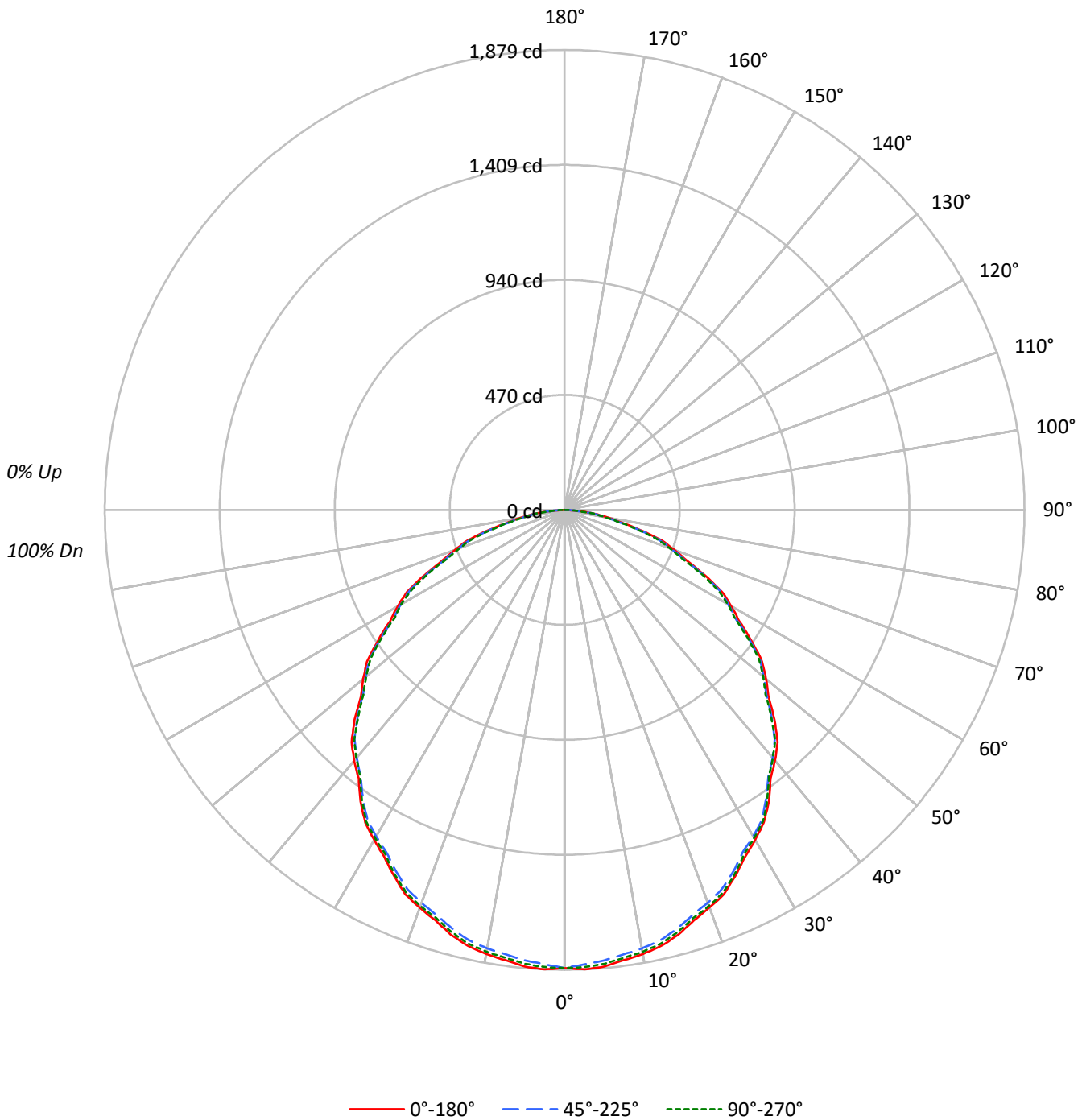
Lumens per Lamp: N/A
Luminaire Lumens: 5105.7 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 51.2
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: P520145
CATALOG NUMBER: SQ4-F-0U-100D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P520145

CATALOG NUMBER: SQ4-F-0U-100D-940-1D-UNV-STD-W-6

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11514	11514	11514
5°	11566	11408	11495
10°	11507	11363	11451
15°	11438	11282	11372
20°	11320	11185	11277
25°	11196	11065	11153
30°	11060	10941	10996
35°	10921	10786	10843
40°	10739	10616	10625
45°	10550	10404	10372
50°	10279	10156	10131
55°	9975	9866	9796
60°	9673	9498	9467
65°	9200	8994	8919
70°	8549	8341	8179
75°	7633	7388	7236
80°	6280	6053	5781
85°	3719	4086	4171



TEST NUMBER: P520145

CATALOG NUMBER: SQ4-F-0U-100D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.5
10°-20°	503.1	9.9
20°-30°	755.6	14.8
30°-40°	901.7	17.7
40°-50°	924.3	18.1
50°-60°	823.1	16.1
60°-70°	613.5	12.0
70°-80°	332.2	6.5
80°-90°	75.6	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°	1435.4	28.1
0°-40°	2337.1	45.8
0°-60°	4084.4	80.0
0°-90°	5105.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5105.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1873	1870	1848	1864	1862	178
15°	1796	1790	1772	1786	1786	506
25°	1650	1646	1630	1640	1643	760
35°	1454	1448	1436	1439	1444	908
45°	1213	1207	1196	1190	1192	933
55°	930	932	920	911	914	833
65°	632	630	618	612	613	625
75°	321	318	311	304	304	342
85°	53	58	58	59	59	75
90°	0	0	0	0	0	



TEST NUMBER: P520145

CATALOG NUMBER: SQ4-F-0U-100D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.0	1872.0	1872.0	1872.0	1872.0
2.5°	1879.2	1875.1	1858.6	1872.0	1869.9
5°	1873.2	1869.5	1847.6	1864.2	1861.7
7.5°	1855.8	1852.0	1832.6	1848.1	1845.8
10°	1842.4	1838.7	1819.3	1834.7	1833.4
12.5°	1825.0	1821.2	1801.8	1817.3	1816.0
15°	1796.2	1789.9	1771.8	1785.9	1785.9
17.5°	1758.1	1753.4	1736.5	1748.4	1748.6
20°	1729.4	1725.6	1708.8	1721.7	1722.9
22.5°	1700.5	1696.8	1678.0	1689.8	1692.1
25°	1649.7	1646.0	1630.4	1639.5	1643.3
27.5°	1597.3	1591.8	1576.5	1584.5	1587.3
30°	1557.2	1554.7	1540.5	1544.4	1548.2
32.5°	1515.1	1512.6	1500.4	1502.4	1509.1
35°	1454.4	1448.1	1436.4	1439.1	1444.1
37.5°	1382.7	1379.7	1368.3	1366.9	1371.7
40°	1337.5	1332.5	1322.1	1319.6	1323.3
42.5°	1288.2	1283.1	1270.7	1268.3	1273.0
45°	1212.9	1206.6	1196.1	1189.8	1192.4
47.5°	1128.5	1128.5	1117.7	1110.4	1114.2
50°	1074.2	1074.2	1061.3	1054.9	1058.7
52.5°	1017.6	1018.6	1004.7	1001.3	1000.1
55°	930.2	931.5	920.0	911.0	913.5
57.5°	846.0	843.2	829.7	823.9	825.2
60°	786.3	782.6	772.1	763.3	769.6
62.5°	725.7	723.9	713.6	703.6	702.8
65°	632.1	629.7	618.0	611.6	612.8
67.5°	539.1	536.1	525.5	516.3	519.6
70°	475.4	475.4	463.8	458.6	454.8
72.5°	416.8	411.8	403.2	395.9	393.2
75°	321.2	317.5	310.9	304.5	304.5
77.5°	233.8	230.6	226.4	221.9	220.8
80°	177.3	176.1	170.9	169.4	163.2
82.5°	124.8	124.6	121.6	118.2	117.9
85°	52.7	57.7	57.9	59.1	59.1
87.5°	9.2	15.3	14.4	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)