

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: P520091

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520091
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

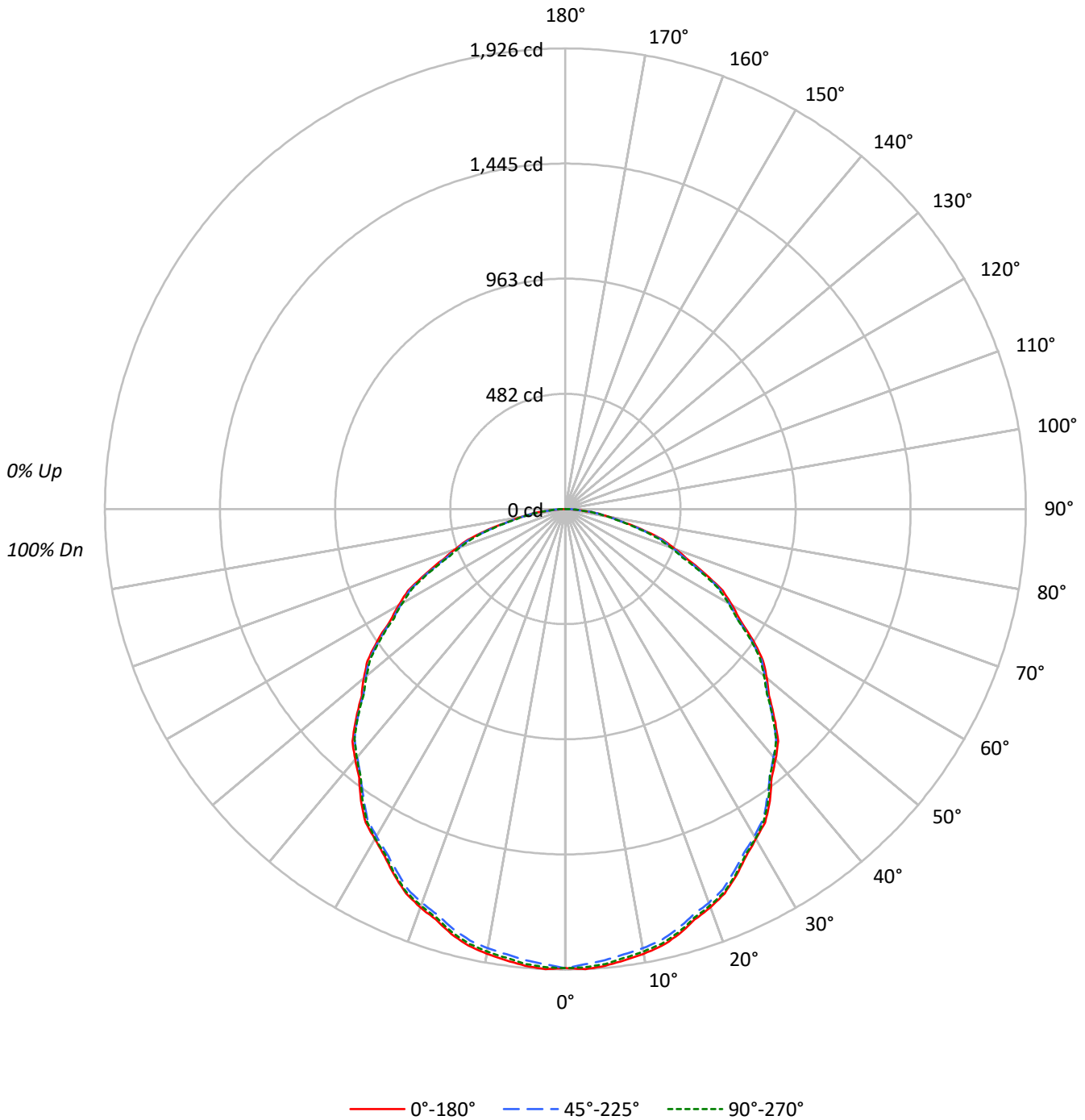
Lumens per Lamp: N/A
Luminaire Lumens: 5240.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 51.7
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: P520091
CATALOG NUMBER: SQ4-F-0U-050D-935-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P520091

CATALOG NUMBER: SQ4-F-0U-050D-935-1D-UNV-STD-W-12

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	61	59
4	83	71	62	55	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	46	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	36	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°	5905	5905	5905
5°	5920	5848	5896
10°	5900	5827	5868
15°	5860	5786	5835
20°	5804	5737	5779
25°	5739	5669	5722
30°	5659	5613	5650
35°	5597	5529	5558
40°	5490	5438	5448
45°	5377	5333	5333
50°	5263	5214	5190
55°	5140	5072	5044
60°	4948	4870	4838
65°	4713	4619	4563
70°	4392	4298	4206
75°	3940	3818	3726
80°	3188	3142	3050
85°	1902	2177	2269



TEST NUMBER: P520091

CATALOG NUMBER: SQ4-F-0U-050D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.5
10°-20°	515.9	9.8
20°-30°	774.9	14.8
30°-40°	924.9	17.7
40°-50°	947.8	18.1
50°-60°	845.3	16.1
60°-70°	629.5	12.0
70°-80°	341.7	6.5
80°-90°	79.2	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°	1471.9	28.1
0°-40°	2396.8	45.7
0°-60°	4189.9	80.0
0°-90°	5240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1918	1915	1894	1912	1910	182
15°	1840	1835	1817	1833	1833	519
25°	1691	1686	1671	1681	1686	779
35°	1491	1486	1473	1473	1480	930
45°	1236	1239	1226	1224	1226	954
55°	959	959	946	938	941	854
65°	648	645	635	627	627	641
75°	332	329	321	316	314	350
85°	54	59	62	64	64	77
90°	0	0	0	0	0	



TEST NUMBER: P520091

CATALOG NUMBER: SQ4-F-0U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.0	1920.0	1920.0	1920.0	1920.0
2.5°	1926.2	1922.2	1905.7	1920.0	1918.0
5°	1917.5	1914.9	1894.3	1912.3	1909.8
7.5°	1903.6	1898.6	1878.4	1895.8	1893.3
10°	1889.2	1884.2	1866.0	1881.4	1878.9
12.5°	1870.6	1867.7	1847.6	1863.0	1862.5
15°	1840.4	1835.3	1817.2	1832.7	1832.7
17.5°	1800.2	1797.3	1779.7	1794.5	1792.6
20°	1773.5	1768.5	1753.0	1765.8	1765.8
22.5°	1740.6	1737.6	1722.1	1733.0	1735.0
25°	1691.3	1686.3	1670.7	1681.1	1686.2
27.5°	1636.8	1632.8	1619.8	1626.6	1630.1
30°	1593.6	1593.6	1580.7	1583.5	1591.0
32.5°	1554.5	1554.5	1539.6	1542.3	1545.8
35°	1490.8	1485.8	1472.8	1473.0	1480.5
37.5°	1416.8	1414.3	1406.0	1404.4	1406.5
40°	1367.5	1364.9	1354.5	1357.1	1357.1
42.5°	1318.1	1315.6	1305.2	1301.7	1305.7
45°	1236.3	1238.9	1226.1	1223.5	1226.1
47.5°	1155.7	1155.7	1145.3	1138.2	1142.2
50°	1100.1	1100.1	1089.8	1084.7	1084.7
52.5°	1042.6	1044.5	1032.2	1025.1	1027.1
55°	958.7	958.7	945.9	938.2	940.7
57.5°	866.2	866.2	853.3	845.7	850.3
60°	804.5	804.5	791.7	784.0	786.5
62.5°	742.8	742.8	730.0	722.3	722.8
65°	647.7	645.2	634.8	627.1	627.1
67.5°	556.2	549.7	541.8	531.6	531.6
70°	488.4	485.8	478.0	467.8	467.8
72.5°	426.7	422.1	414.3	406.2	406.2
75°	331.6	329.0	321.3	316.1	313.6
77.5°	237.5	235.5	235.0	227.8	229.8
80°	180.0	180.0	177.4	172.2	172.2
82.5°	128.5	130.6	125.9	124.8	122.9
85°	53.9	59.0	61.7	64.3	64.3
87.5°	10.3	16.3	14.4	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)