

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: P520141

Luminaire Tested: **SQ4-F-0U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520141
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

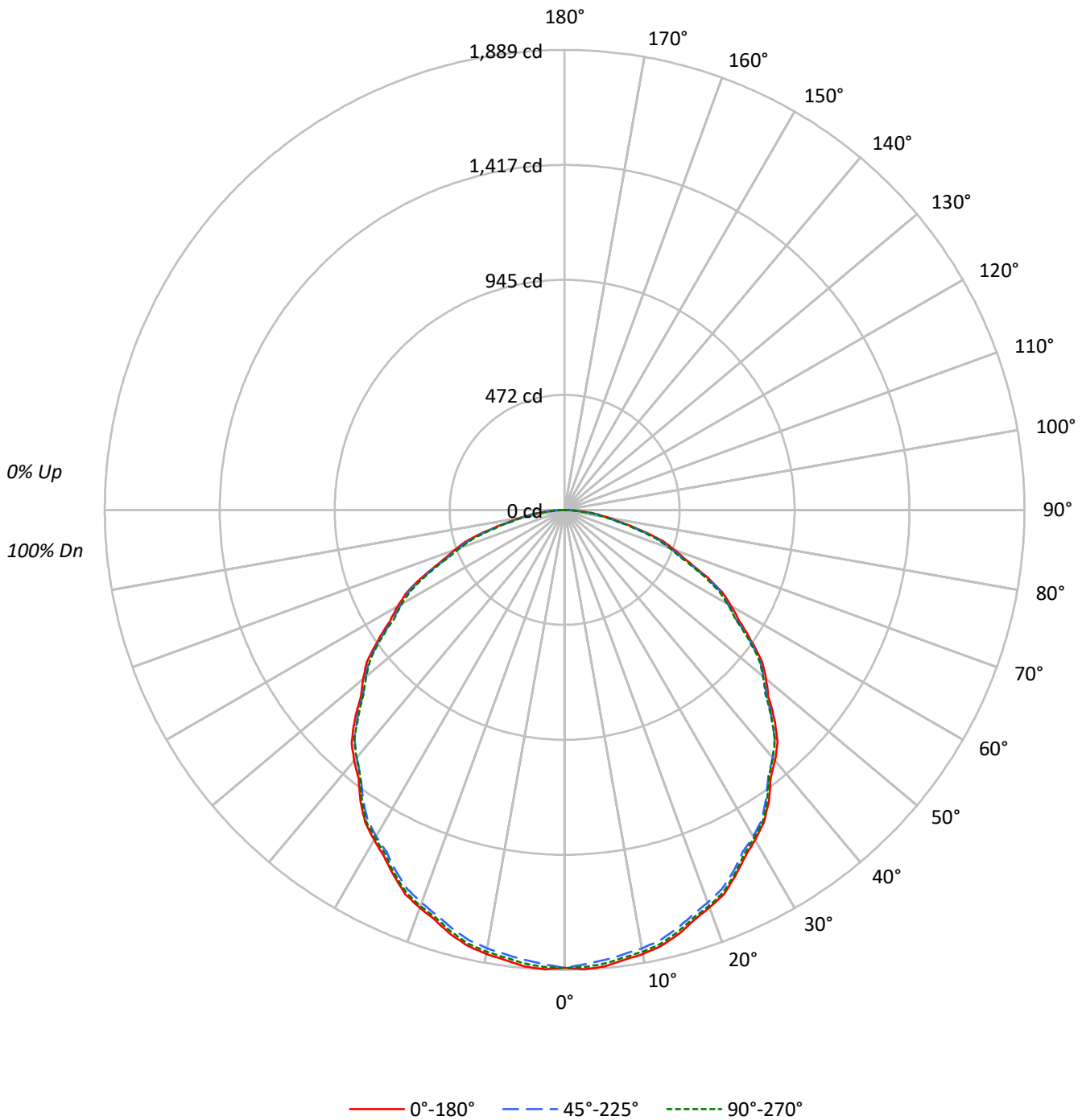
Lumens per Lamp: N/A
Luminaire Lumens: 5131.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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



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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	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°	11573	11573	11573
5°	11626	11466	11553
10°	11566	11421	11510
15°	11496	11340	11430
20°	11377	11242	11336
25°	11253	11121	11210
30°	11116	10997	11052
35°	10977	10840	10900
40°	10794	10669	10680
45°	10604	10458	10424
50°	10331	10207	10182
55°	10025	9915	9846
60°	9722	9547	9515
65°	9246	9040	8965
70°	8593	8384	8222
75°	7671	7427	7274
80°	6312	6082	5809
85°	3733	4107	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.5
10°-20°	505.7	9.9
20°-30°	759.4	14.8
30°-40°	906.3	17.7
40°-50°	929.0	18.1
50°-60°	827.2	16.1
60°-70°	616.7	12.0
70°-80°	333.9	6.5
80°-90°	76.0	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°	1442.7	28.1
0°-40°	2349.0	45.8
0°-60°	4105.2	80.0
0°-90°	5131.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5131.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1883	1879	1857	1874	1871	179
15°	1805	1799	1781	1795	1795	509
25°	1658	1654	1639	1648	1652	764
35°	1462	1456	1444	1446	1452	913
45°	1219	1213	1202	1196	1198	938
55°	935	936	925	916	918	837
65°	635	633	621	615	616	628
75°	323	319	312	306	306	344
85°	53	58	58	59	59	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.6	1881.6	1881.6	1881.6	1881.6
2.5°	1888.8	1884.7	1868.1	1881.5	1879.5
5°	1882.9	1879.0	1857.0	1873.7	1871.2
7.5°	1865.2	1861.5	1842.0	1857.5	1855.2
10°	1851.8	1848.1	1828.6	1844.0	1842.8
12.5°	1834.3	1830.4	1811.0	1826.5	1825.2
15°	1805.4	1799.0	1780.8	1795.0	1795.0
17.5°	1767.1	1762.3	1745.4	1757.3	1757.5
20°	1738.2	1734.4	1717.5	1730.5	1731.8
22.5°	1709.3	1705.5	1686.6	1698.5	1700.7
25°	1658.1	1654.4	1638.7	1647.8	1651.7
27.5°	1605.4	1599.9	1584.5	1592.5	1595.3
30°	1565.1	1562.6	1548.4	1552.3	1556.1
32.5°	1522.8	1520.2	1508.0	1510.0	1516.9
35°	1461.9	1455.5	1443.7	1446.5	1451.6
37.5°	1389.8	1386.8	1375.4	1373.9	1378.6
40°	1344.3	1339.3	1328.8	1326.3	1330.1
42.5°	1294.7	1289.7	1277.2	1274.7	1279.4
45°	1219.1	1212.8	1202.3	1195.9	1198.4
47.5°	1134.4	1134.4	1123.5	1116.1	1119.9
50°	1079.6	1079.6	1066.7	1060.3	1064.1
52.5°	1022.7	1023.8	1009.8	1006.5	1005.2
55°	934.9	936.2	924.6	915.6	918.2
57.5°	850.2	847.5	834.0	828.0	829.3
60°	790.3	786.5	776.1	767.2	773.5
62.5°	729.3	727.6	717.3	707.2	706.4
65°	635.3	632.8	621.1	614.7	616.0
67.5°	541.9	538.8	528.2	519.0	522.3
70°	477.8	477.8	466.2	460.9	457.2
72.5°	418.9	413.9	405.2	397.9	395.1
75°	322.8	319.0	312.5	306.1	306.1
77.5°	235.0	231.8	227.5	223.1	221.8
80°	178.2	177.0	171.7	170.3	164.0
82.5°	125.5	125.2	122.2	118.8	118.5
85°	52.9	58.0	58.2	59.4	59.4
87.5°	9.3	15.4	14.5	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)