

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: P520129

Luminaire Tested: **SQ4-F-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520129
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

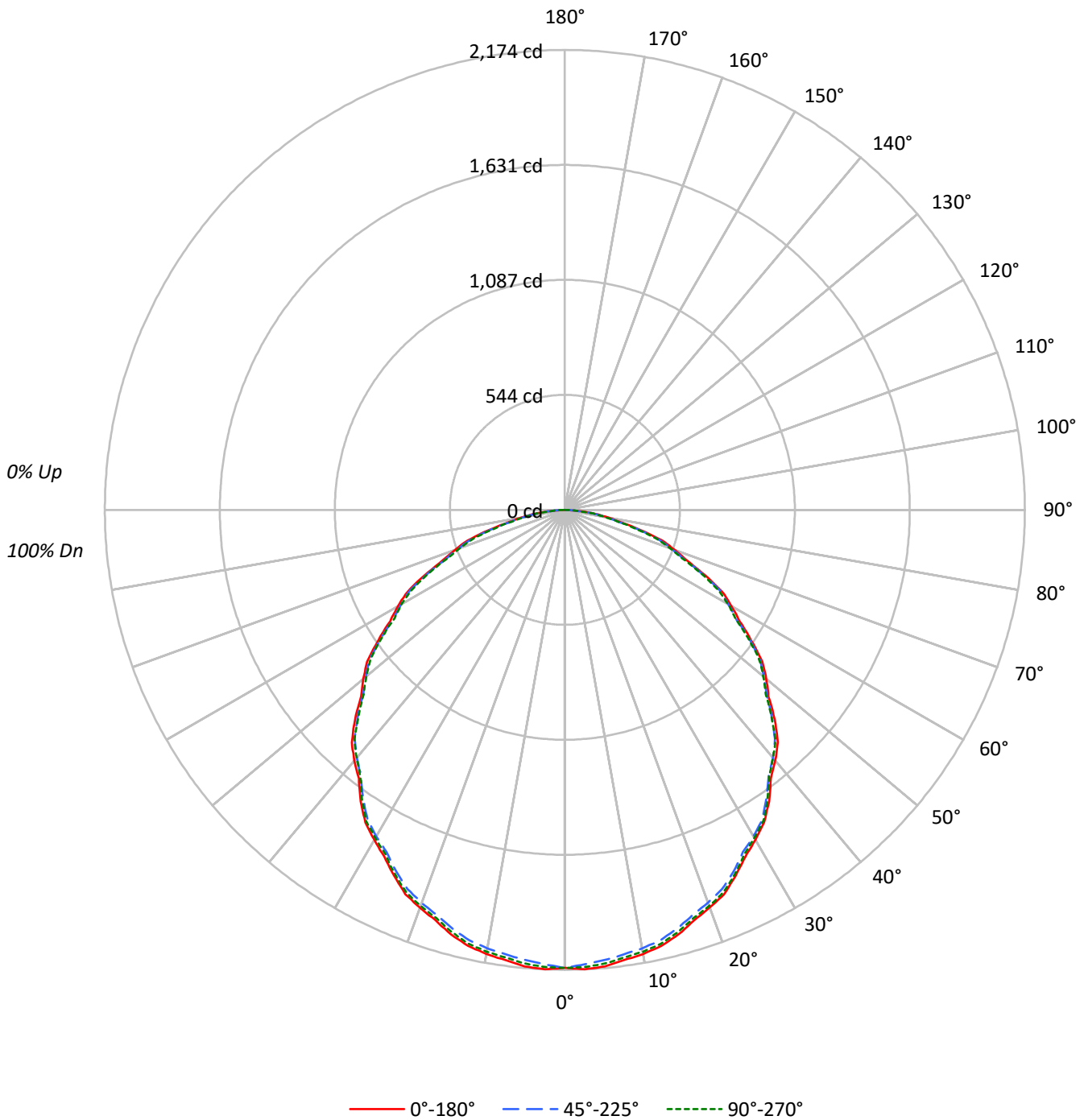
Lumens per Lamp: N/A
Luminaire Lumens: 5906.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	13319	13319	13319
5°	13379	13196	13297
10°	13311	13144	13246
15°	13231	13051	13155
20°	13094	12939	13045
25°	12951	12800	12901
30°	12793	12656	12720
35°	12633	12477	12543
40°	12423	12279	12291
45°	12204	12036	11997
50°	11889	11747	11719
55°	11539	11411	11332
60°	11190	10988	10952
65°	10642	10405	10317
70°	9889	9648	9461
75°	8831	8548	8370
80°	7265	7003	6687
85°	4298	4721	4827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.5
10°-20°	582.0	9.9
20°-30°	874.0	14.8
30°-40°	1043.1	17.7
40°-50°	1069.2	18.1
50°-60°	952.1	16.1
60°-70°	709.7	12.0
70°-80°	384.3	6.5
80°-90°	87.5	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°	1660.4	28.1
0°-40°	2703.5	45.8
0°-60°	4724.7	80.0
0°-90°	5906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5906.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2167	2163	2137	2156	2154	205
15°	2078	2070	2050	2066	2066	585
25°	1908	1904	1886	1896	1901	879
35°	1682	1675	1662	1665	1670	1050
45°	1403	1396	1384	1376	1379	1079
55°	1076	1078	1064	1054	1057	963
65°	731	728	715	707	709	723
75°	372	367	360	352	352	396
85°	61	67	67	68	68	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.4	2165.4	2165.4	2165.4	2165.4
2.5°	2173.8	2169.1	2150.0	2165.3	2163.1
5°	2166.9	2162.6	2137.2	2156.4	2153.6
7.5°	2146.7	2142.4	2120.0	2137.7	2135.1
10°	2131.3	2126.9	2104.5	2122.3	2120.9
12.5°	2111.0	2106.7	2084.3	2102.1	2100.6
15°	2077.8	2070.5	2049.5	2065.9	2065.9
17.5°	2033.8	2028.2	2008.8	2022.5	2022.8
20°	2000.5	1996.1	1976.7	1991.6	1993.0
22.5°	1967.2	1962.8	1941.0	1954.8	1957.4
25°	1908.3	1904.0	1886.0	1896.5	1900.9
27.5°	1847.7	1841.2	1823.6	1832.9	1836.1
30°	1801.3	1798.4	1782.0	1786.6	1790.9
32.5°	1752.6	1749.7	1735.6	1737.9	1745.7
35°	1682.4	1675.2	1661.6	1664.7	1670.5
37.5°	1599.5	1596.0	1582.8	1581.2	1586.7
40°	1547.2	1541.3	1529.3	1526.5	1530.8
42.5°	1490.1	1484.3	1469.9	1467.0	1472.6
45°	1403.0	1395.8	1383.7	1376.4	1379.2
47.5°	1305.5	1305.5	1293.0	1284.5	1288.9
50°	1242.5	1242.5	1227.6	1220.3	1224.7
52.5°	1177.1	1178.3	1162.2	1158.4	1156.9
55°	1076.0	1077.5	1064.1	1053.8	1056.7
57.5°	978.5	975.4	959.8	953.0	954.5
60°	909.6	905.2	893.2	883.0	890.3
62.5°	839.4	837.3	825.5	813.9	813.0
65°	731.2	728.4	714.9	707.4	708.9
67.5°	623.6	620.2	607.9	597.3	601.0
70°	549.9	549.9	536.5	530.5	526.1
72.5°	482.1	476.3	466.4	458.0	454.8
75°	371.6	367.2	359.7	352.2	352.2
77.5°	270.5	266.7	261.9	256.8	255.3
80°	205.1	203.6	197.7	196.0	188.8
82.5°	144.5	144.2	140.6	136.7	136.4
85°	60.9	66.8	66.9	68.4	68.4
87.5°	10.7	17.6	16.6	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)