

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: P520127

Luminaire Tested: **SQ4-F-0U-100D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520127
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-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

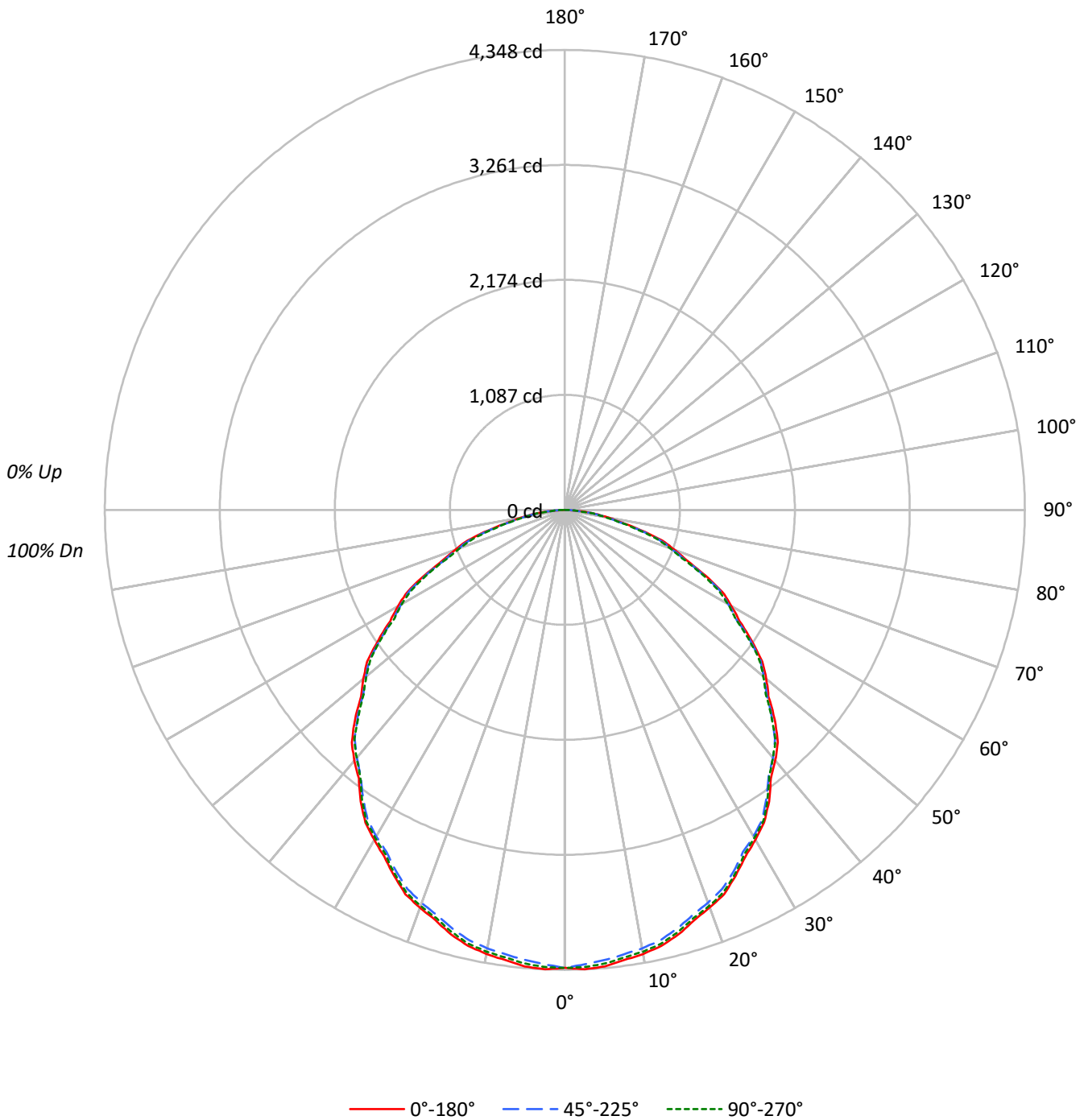
Lumens per Lamp: N/A
Luminaire Lumens: 11812.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 104.1
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	13046
25°	12951	12800	12901
30°	12793	12656	12720
35°	12633	12477	12544
40°	12423	12280	12291
45°	12204	12036	11997
50°	11889	11747	11719
55°	11539	11412	11332
60°	11190	10988	10952
65°	10643	10405	10318
70°	9889	9649	9462
75°	8830	8547	8371
80°	7265	7001	6686
85°	4301	4721	4824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	3.5
10°-20°	1164.0	9.9
20°-30°	1748.0	14.8
30°-40°	2086.1	17.7
40°-50°	2138.3	18.1
50°-60°	1904.1	16.1
60°-70°	1419.4	12.0
70°-80°	768.5	6.5
80°-90°	174.9	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°	3320.8	28.1
0°-40°	5406.9	45.8
0°-60°	9449.4	80.0
0°-90°	11812.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11812.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4331	4331	4331	4331	4331	
5°	4334	4325	4274	4313	4307	411
15°	4156	4141	4099	4132	4132	1171
25°	3817	3808	3772	3793	3802	1759
35°	3365	3350	3323	3330	3341	2100
45°	2806	2791	2767	2753	2758	2159
55°	2152	2155	2128	2108	2113	1926
65°	1462	1457	1430	1415	1418	1446
75°	743	734	719	704	704	791
85°	122	134	134	137	137	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4330.9	4330.9	4330.9	4330.9	4330.9
2.5°	4347.5	4338.2	4300.0	4330.8	4326.1
5°	4333.9	4325.1	4274.4	4313.0	4307.1
7.5°	4293.4	4284.7	4239.9	4275.5	4270.2
10°	4262.5	4253.8	4209.0	4244.6	4241.7
12.5°	4222.1	4213.4	4168.6	4204.2	4201.3
15°	4155.5	4140.9	4099.0	4131.7	4131.7
17.5°	4067.5	4056.5	4017.6	4044.9	4045.5
20°	4000.9	3992.2	3953.4	3983.2	3986.1
22.5°	3934.4	3925.6	3882.0	3909.5	3914.7
25°	3816.6	3807.9	3772.1	3793.1	3801.8
27.5°	3695.4	3682.6	3647.2	3665.7	3672.2
30°	3602.6	3596.8	3564.0	3573.1	3581.8
32.5°	3505.1	3499.3	3471.2	3475.8	3491.5
35°	3364.8	3350.3	3323.2	3329.5	3341.1
37.5°	3199.0	3192.0	3165.7	3162.4	3173.4
40°	3094.3	3082.7	3058.7	3052.9	3061.6
42.5°	2980.2	2968.6	2939.8	2934.1	2945.1
45°	2806.0	2791.4	2767.4	2752.6	2758.5
47.5°	2611.0	2611.0	2586.0	2569.0	2577.7
50°	2485.0	2485.0	2455.3	2440.6	2449.3
52.5°	2354.2	2356.5	2324.5	2316.6	2313.8
55°	2152.1	2154.9	2128.3	2107.6	2113.4
57.5°	1957.1	1950.6	1919.6	1906.0	1908.9
60°	1819.2	1810.4	1786.5	1765.9	1780.5
62.5°	1678.8	1674.8	1650.9	1627.7	1625.9
65°	1462.5	1456.6	1429.8	1415.0	1417.9
67.5°	1247.2	1240.3	1215.7	1194.5	1202.1
70°	1099.8	1099.8	1073.1	1061.0	1052.3
72.5°	964.3	952.7	932.8	916.0	909.6
75°	743.1	734.4	719.3	704.5	704.5
77.5°	541.0	533.5	523.7	513.5	510.7
80°	410.2	407.3	395.3	392.1	377.5
82.5°	288.9	288.3	281.2	273.5	272.9
85°	121.9	133.5	133.8	136.7	136.7
87.5°	21.4	35.4	33.3	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)