

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: P520142

Luminaire Tested: **SQ4-F-0U-100D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520142
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-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

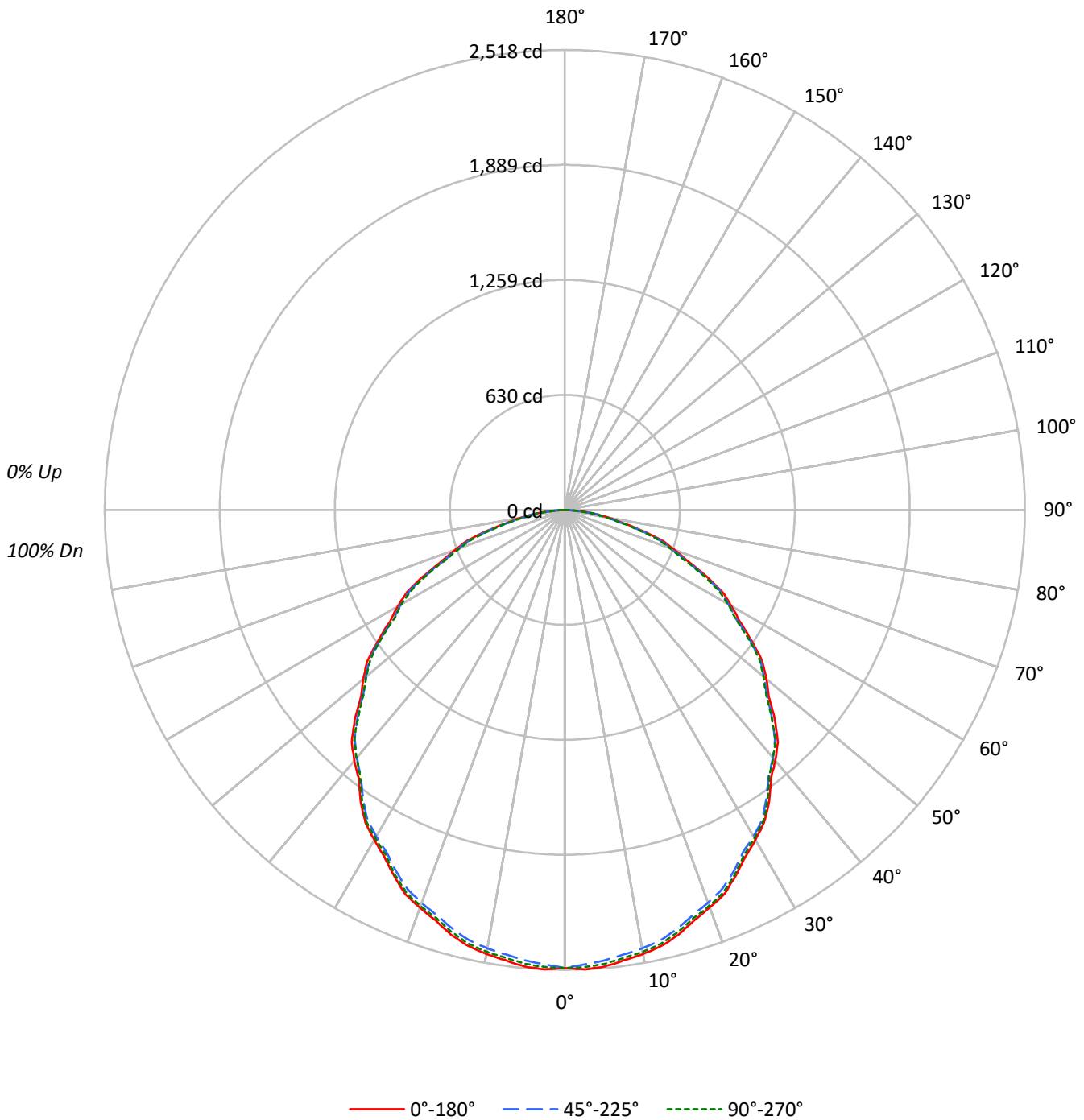
Lumens per Lamp: N/A
Luminaire Lumens: 6842.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 67.6
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°	11625	11466	11554
10°	11566	11421	11509
15°	11496	11340	11430
20°	11377	11242	11335
25°	11253	11122	11209
30°	11116	10997	11052
35°	10976	10841	10899
40°	10794	10670	10680
45°	10604	10458	10425
50°	10331	10207	10182
55°	10027	9916	9847
60°	9722	9547	9515
65°	9248	9040	8965
70°	8593	8383	8222
75°	7671	7425	7274
80°	6312	6084	5810
85°	3732	4102	4192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	3.5
10°-20°	674.3	9.9
20°-30°	1012.6	14.8
30°-40°	1208.4	17.7
40°-50°	1238.6	18.1
50°-60°	1103.0	16.1
60°-70°	822.2	12.0
70°-80°	445.2	6.5
80°-90°	101.3	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°	1923.6	28.1
0°-40°	3132.0	45.8
0°-60°	5473.7	80.0
0°-90°	6842.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6842.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2510	2505	2476	2498	2495	238
15°	2407	2399	2374	2393	2393	678
25°	2211	2206	2185	2197	2202	1019
35°	1949	1941	1925	1929	1935	1217
45°	1625	1617	1603	1594	1598	1251
55°	1247	1248	1233	1221	1224	1116
65°	847	844	828	820	821	838
75°	430	425	417	408	408	458
85°	70	77	78	79	79	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2518.4	2512.9	2490.8	2508.7	2506.0
5°	2510.4	2505.4	2476.0	2498.4	2495.0
7.5°	2487.1	2482.0	2456.1	2476.7	2473.6
10°	2469.1	2464.1	2438.1	2458.7	2457.0
12.5°	2445.7	2440.7	2414.7	2435.3	2433.7
15°	2407.1	2398.7	2374.4	2393.3	2393.3
17.5°	2356.2	2349.7	2327.2	2343.1	2343.4
20°	2317.6	2312.6	2290.1	2307.3	2309.0
22.5°	2279.0	2273.9	2248.7	2264.6	2267.7
25°	2210.8	2205.8	2185.1	2197.1	2202.2
27.5°	2140.6	2133.1	2112.7	2123.4	2127.2
30°	2086.9	2083.5	2064.5	2069.7	2074.8
32.5°	2030.4	2027.0	2010.8	2013.4	2022.5
35°	1949.1	1940.7	1925.0	1928.6	1935.4
37.5°	1853.0	1849.0	1833.7	1831.8	1838.3
40°	1792.4	1785.7	1771.8	1768.4	1773.5
42.5°	1726.3	1719.6	1702.9	1699.6	1706.0
45°	1625.4	1617.0	1603.1	1594.5	1597.9
47.5°	1512.5	1512.5	1498.0	1488.1	1493.2
50°	1439.5	1439.5	1422.2	1413.7	1418.8
52.5°	1363.7	1365.1	1346.4	1342.0	1340.3
55°	1246.7	1248.3	1232.9	1220.9	1224.3
57.5°	1133.7	1129.9	1112.0	1104.1	1105.8
60°	1053.7	1048.7	1034.8	1022.9	1031.3
62.5°	972.5	970.1	956.3	942.9	941.9
65°	847.2	843.8	828.2	819.6	821.3
67.5°	722.5	718.4	704.3	691.9	696.4
70°	637.1	637.1	621.5	614.6	609.6
72.5°	558.5	551.8	540.3	530.6	526.9
75°	430.4	425.4	416.6	408.1	408.1
77.5°	313.4	309.0	303.4	297.5	295.9
80°	237.6	235.9	229.0	227.1	218.7
82.5°	167.3	167.1	162.9	158.4	158.0
85°	70.5	77.3	77.5	79.2	79.2
87.5°	12.4	20.5	19.3	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)