

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: P520115

Luminaire Tested: **SQ4-F-0U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520115
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

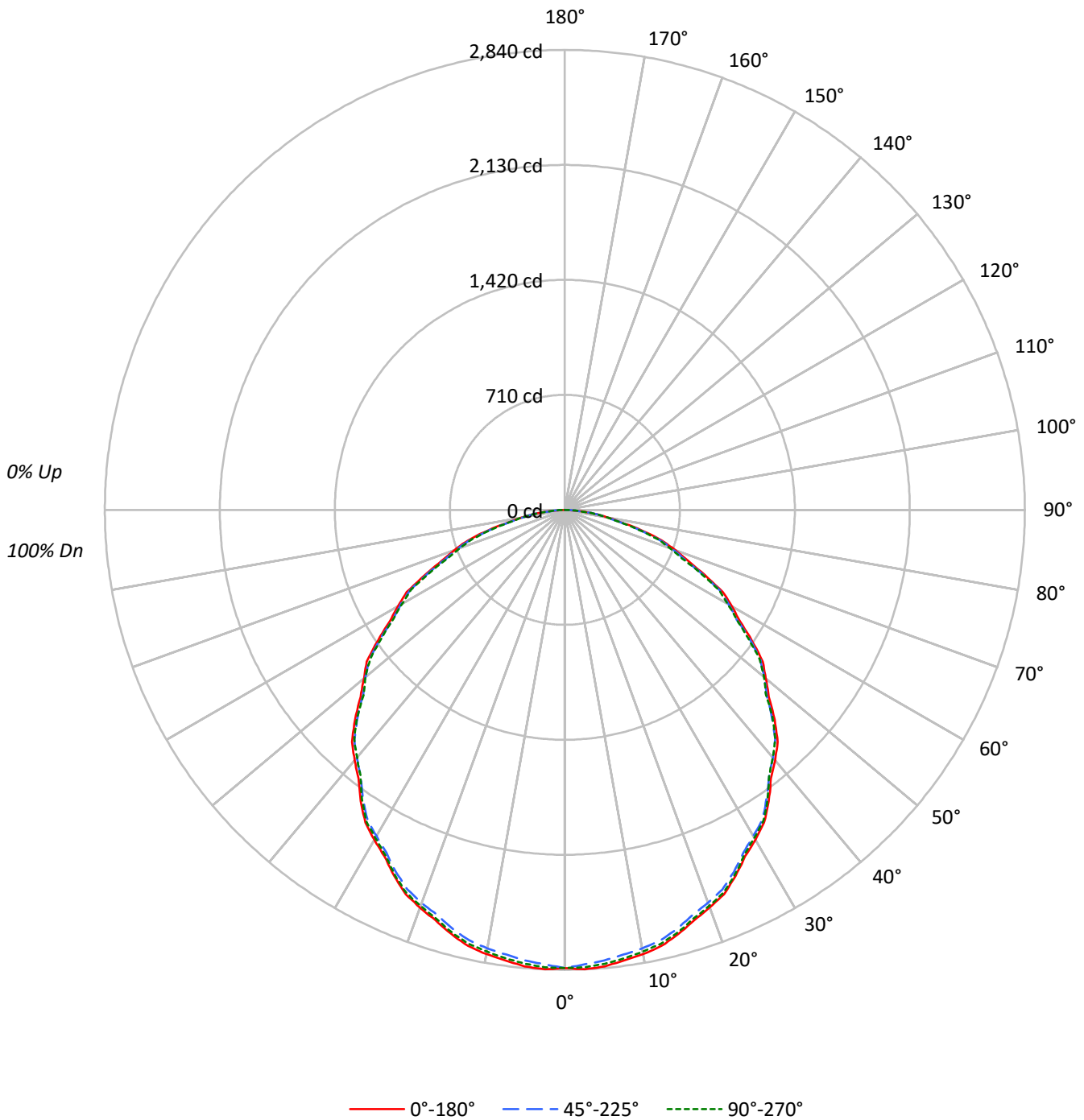
Lumens per Lamp: N/A
Luminaire Lumens: 7723.8 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 76.5
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: P520115
CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P520115

CATALOG NUMBER: SQ4-F-0U-075D-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°	8702	8702	8702
5°	8735	8624	8687
10°	8700	8588	8651
15°	8633	8526	8600
20°	8555	8454	8521
25°	8461	8373	8434
30°	8353	8262	8308
35°	8243	8157	8195
40°	8105	8022	8012
45°	7966	7865	7887
50°	7744	7683	7683
55°	7564	7468	7399
60°	7321	7195	7131
65°	6926	6795	6701
70°	6505	6343	6182
75°	5852	5638	5517
80°	4679	4589	4543
85°	2805	3165	3257



TEST NUMBER: P520115

CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	3.5
10°-20°	760.3	9.8
20°-30°	1142.3	14.8
30°-40°	1363.0	17.6
40°-50°	1397.8	18.1
50°-60°	1245.5	16.1
60°-70°	928.7	12.0
70°-80°	503.6	6.5
80°-90°	115.7	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°	2169.6	28.1
0°-40°	3532.6	45.7
0°-60°	6175.9	80.0
0°-90°	7723.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7723.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2829	2829	2829	2829	2829	
5°	2829	2824	2794	2816	2814	268
15°	2711	2706	2678	2699	2701	765
25°	2493	2491	2468	2481	2486	1148
35°	2196	2191	2173	2173	2183	1372
45°	1832	1824	1808	1808	1814	1410
55°	1411	1408	1393	1380	1380	1260
65°	952	952	934	923	921	947
75°	492	482	474	467	464	517
85°	80	84	90	90	92	112
90°	0	0	0	0	0	



TEST NUMBER: P520115

CATALOG NUMBER: SQ4-F-0U-075D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2839.6	2833.6	2808.8	2829.3	2827.3
5°	2829.4	2824.4	2793.5	2816.5	2813.9
7.5°	2806.2	2800.7	2770.3	2793.5	2793.0
10°	2785.8	2778.2	2749.9	2772.9	2770.3
12.5°	2759.0	2751.5	2723.2	2746.2	2743.7
15°	2711.4	2706.4	2678.0	2698.6	2701.1
17.5°	2657.0	2647.4	2622.0	2642.1	2644.7
20°	2613.9	2606.4	2583.1	2601.1	2603.6
22.5°	2568.7	2561.2	2538.0	2556.0	2558.5
25°	2493.3	2490.8	2467.6	2480.6	2485.6
27.5°	2411.7	2404.8	2386.1	2396.0	2401.0
30°	2352.2	2347.2	2326.6	2334.4	2339.4
32.5°	2290.7	2287.6	2269.1	2272.9	2279.9
35°	2195.7	2190.7	2172.7	2172.9	2182.9
37.5°	2090.5	2085.0	2070.1	2067.6	2071.6
40°	2018.8	2011.2	1998.2	1995.7	1995.7
42.5°	1944.9	1939.4	1922.3	1917.8	1923.8
45°	1831.5	1824.0	1808.4	1808.5	1813.5
47.5°	1708.9	1705.9	1687.9	1679.7	1681.7
50°	1618.6	1623.6	1605.8	1595.8	1605.8
52.5°	1540.6	1537.6	1521.7	1511.4	1515.5
55°	1410.8	1408.3	1392.8	1380.0	1380.0
57.5°	1280.6	1274.0	1257.9	1248.4	1255.9
60°	1190.2	1187.8	1169.7	1151.9	1159.4
62.5°	1099.9	1095.5	1077.4	1065.6	1071.2
65°	951.7	951.7	933.7	923.3	920.9
67.5°	821.9	809.8	799.8	787.4	783.9
70°	723.4	713.3	705.4	694.9	687.5
72.5°	626.9	620.9	608.9	598.7	597.1
75°	492.5	482.5	474.5	466.8	464.3
77.5°	350.4	348.4	341.2	337.1	338.6
80°	264.2	264.2	259.1	259.0	256.5
82.5°	186.2	188.3	187.3	183.1	182.6
85°	79.5	84.5	89.7	89.8	92.3
87.5°	14.4	24.4	22.5	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)