

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: P564177

Luminaire Tested: **SQ4-PR1-0U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564177
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7445.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

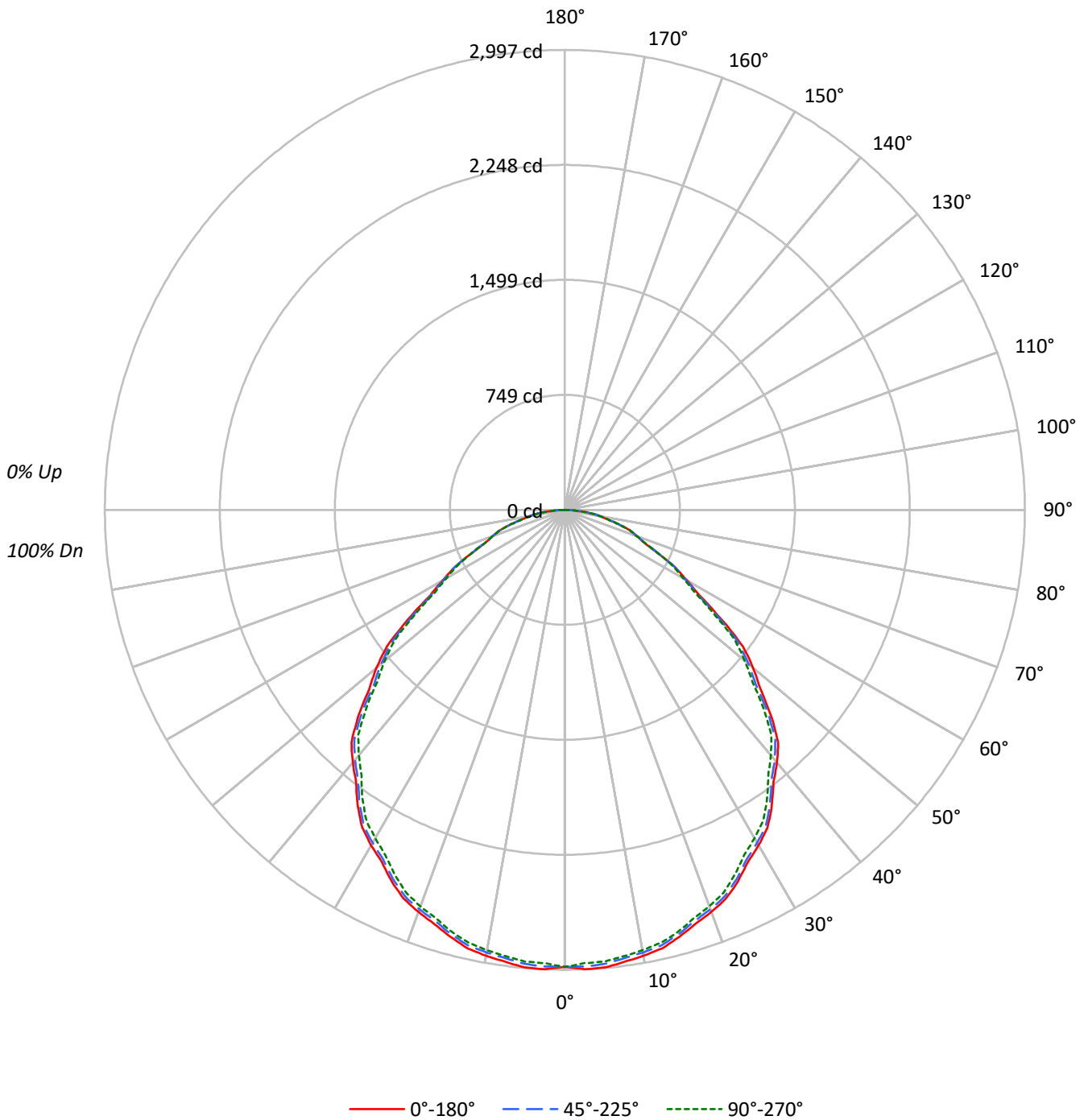
Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6533	6396
60°	5633	5586	5475
65°	4872	4891	4853
70°	4474	4498	4498
75°	4298	4298	4328
80°	4043	4089	4043
85°	3257	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	3.8
10°-20°	805.8	10.8
20°-30°	1215.3	16.3
30°-40°	1448.1	19.5
40°-50°	1427.7	19.2
50°-60°	1091.1	14.7
60°-70°	675.2	9.1
70°-80°	383.5	5.2
80°-90°	116.7	1.6
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°	2302.7	30.9
0°-40°	3750.8	50.4
0°-60°	6269.6	84.2
0°-90°	7445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2978	2978	2978	2978	2978	
5°	2994	2961	2970	2960	2955	284
15°	2881	2850	2863	2852	2847	813
25°	2670	2638	2652	2624	2622	1229
35°	2352	2325	2332	2301	2298	1468
45°	1903	1878	1870	1836	1832	1458
55°	1247	1227	1218	1198	1193	1117
65°	670	664	672	667	667	678
75°	362	362	362	364	364	382
85°	92	97	103	103	103	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2978.1	2978.1	2978.1	2978.1	2978.1
2.5°	2996.6	2970.5	2978.1	2971.6	2957.6
5°	2993.5	2960.9	2970.4	2960.0	2955.0
7.5°	2970.4	2938.3	2947.8	2937.5	2934.5
10°	2949.9	2919.8	2929.4	2919.0	2914.0
12.5°	2927.3	2895.2	2906.8	2894.4	2889.4
15°	2880.6	2850.5	2862.7	2852.3	2847.3
17.5°	2829.3	2797.2	2809.3	2797.4	2790.9
20°	2788.3	2758.2	2770.3	2752.3	2749.8
22.5°	2743.1	2713.1	2725.2	2701.1	2700.6
25°	2670.3	2637.7	2652.3	2624.1	2621.6
27.5°	2583.6	2553.5	2565.6	2536.8	2533.8
30°	2524.1	2494.0	2506.1	2475.2	2470.2
32.5°	2456.4	2428.3	2438.4	2407.6	2404.6
35°	2352.2	2324.6	2331.7	2300.9	2298.4
37.5°	2233.7	2208.6	2212.7	2178.8	2176.3
40°	2149.6	2124.5	2126.5	2090.5	2088.0
42.5°	2057.2	2032.2	2030.0	1994.1	1991.6
45°	1903.3	1878.2	1870.0	1836.5	1831.5
47.5°	1727.9	1702.8	1687.3	1660.1	1656.6
50°	1600.6	1575.6	1562.2	1538.9	1531.4
52.5°	1463.1	1438.1	1426.7	1405.5	1398.0
55°	1246.7	1226.6	1218.4	1197.8	1192.8
57.5°	1040.9	1027.4	1025.0	1005.0	1003.0
60°	915.8	908.2	908.1	890.1	890.1
62.5°	809.0	803.5	807.5	795.7	793.7
65°	669.5	664.5	672.1	666.9	666.9
67.5°	559.2	559.2	563.8	561.8	561.8
70°	497.6	497.6	500.2	500.2	500.2
72.5°	442.2	440.2	446.8	446.8	444.8
75°	361.7	361.7	361.7	364.2	364.2
77.5°	281.7	282.2	284.2	283.7	281.7
80°	228.3	230.8	230.9	228.3	228.3
82.5°	174.9	177.4	177.5	176.9	174.9
85°	92.3	97.4	102.6	102.6	102.6
87.5°	26.7	34.7	41.0	41.0	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)