

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: P563497

Luminaire Tested: **SQ4-PP3-0U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563497
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8706.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

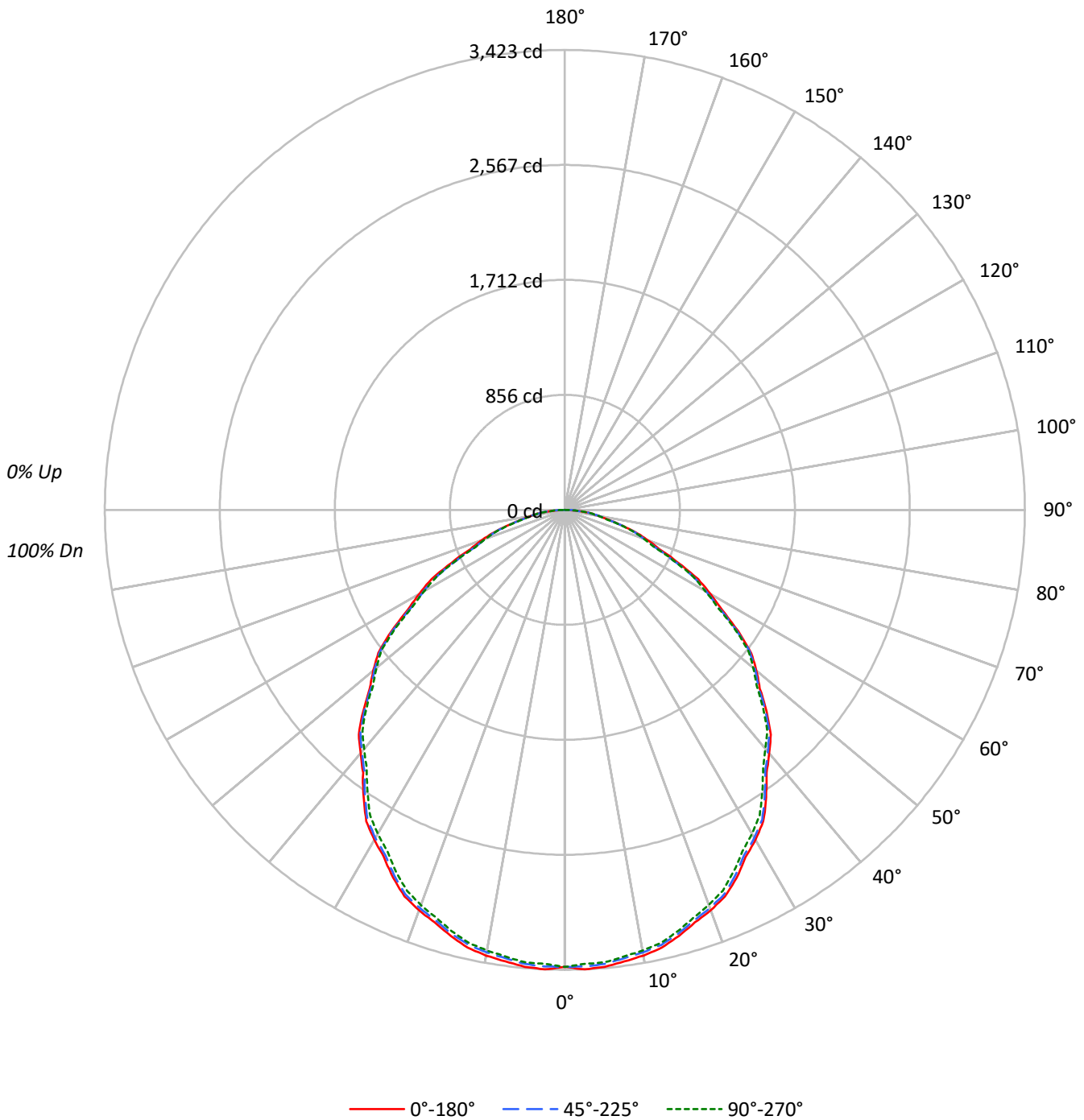
Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10446	10399
15°	10450	10393	10336
20°	10381	10323	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6768	6487	6465
70°	5844	5603	5603
75°	5030	4960	4888
80°	4435	4488	4382
85°	3472	3786	3786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	3.7
10°-20°	918.4	10.5
20°-30°	1375.6	15.8
30°-40°	1613.6	18.5
40°-50°	1618.6	18.6
50°-60°	1380.8	15.9
60°-70°	900.5	10.3
70°-80°	451.8	5.2
80°-90°	125.0	1.4
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°	2615.7	30.0
0°-40°	4229.3	48.6
0°-60°	7228.7	83.0
0°-90°	8706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3393	3381	3381	324
15°	3282	3250	3264	3252	3246	926
25°	3023	2988	3002	2975	2972	1390
35°	2612	2585	2594	2564	2561	1631
45°	2123	2108	2108	2087	2087	1634
55°	1574	1568	1553	1544	1541	1399
65°	930	913	891	886	888	928
75°	423	423	417	414	411	459
85°	98	107	107	107	107	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.5	3401.5	3401.5	3401.5	3401.5
2.5°	3423.0	3395.0	3401.5	3396.4	3382.5
5°	3413.5	3381.4	3392.6	3380.7	3380.7
7.5°	3390.2	3355.2	3366.4	3354.4	3353.8
10°	3368.7	3333.8	3344.9	3332.9	3330.0
12.5°	3337.7	3302.8	3316.3	3301.9	3301.4
15°	3282.3	3250.2	3264.4	3252.3	3246.5
17.5°	3219.7	3184.7	3201.8	3185.0	3182.7
20°	3172.0	3137.0	3154.1	3130.2	3130.2
22.5°	3114.7	3079.8	3099.2	3068.2	3068.2
25°	3022.9	2987.9	3002.1	2975.2	2972.2
27.5°	2913.8	2879.4	2894.1	2863.7	2863.1
30°	2835.1	2803.0	2820.2	2787.3	2784.4
32.5°	2749.3	2719.5	2732.0	2699.1	2696.2
35°	2611.5	2585.3	2593.6	2563.8	2560.8
37.5°	2466.6	2439.8	2449.3	2423.7	2422.5
40°	2364.1	2346.6	2349.2	2328.2	2322.3
42.5°	2268.7	2248.9	2251.4	2230.5	2229.3
45°	2122.6	2108.0	2107.7	2086.8	2086.8
47.5°	1967.6	1956.5	1953.3	1936.0	1935.4
50°	1860.3	1851.5	1848.3	1833.4	1830.4
52.5°	1748.2	1744.1	1733.9	1721.3	1720.7
55°	1574.1	1568.2	1553.2	1544.2	1541.3
57.5°	1385.1	1373.4	1356.4	1343.4	1345.7
60°	1249.1	1237.5	1213.3	1207.4	1207.4
62.5°	1117.9	1104.0	1079.8	1071.5	1076.2
65°	930.1	912.6	891.4	885.5	888.4
67.5°	759.6	743.9	720.9	720.8	718.5
70°	649.9	641.2	623.1	623.1	623.1
72.5°	552.1	548.0	534.8	534.8	532.4
75°	423.3	423.3	417.4	414.3	411.4
77.5°	317.2	318.4	315.4	312.3	307.1
80°	250.4	256.2	253.4	250.4	247.4
82.5°	188.4	194.2	193.8	188.4	187.8
85°	98.4	107.1	107.3	107.3	107.3
87.5°	26.2	35.6	38.2	38.2	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)