

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: P564211

Luminaire Tested: **SQ4-PR1-0U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564211
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-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

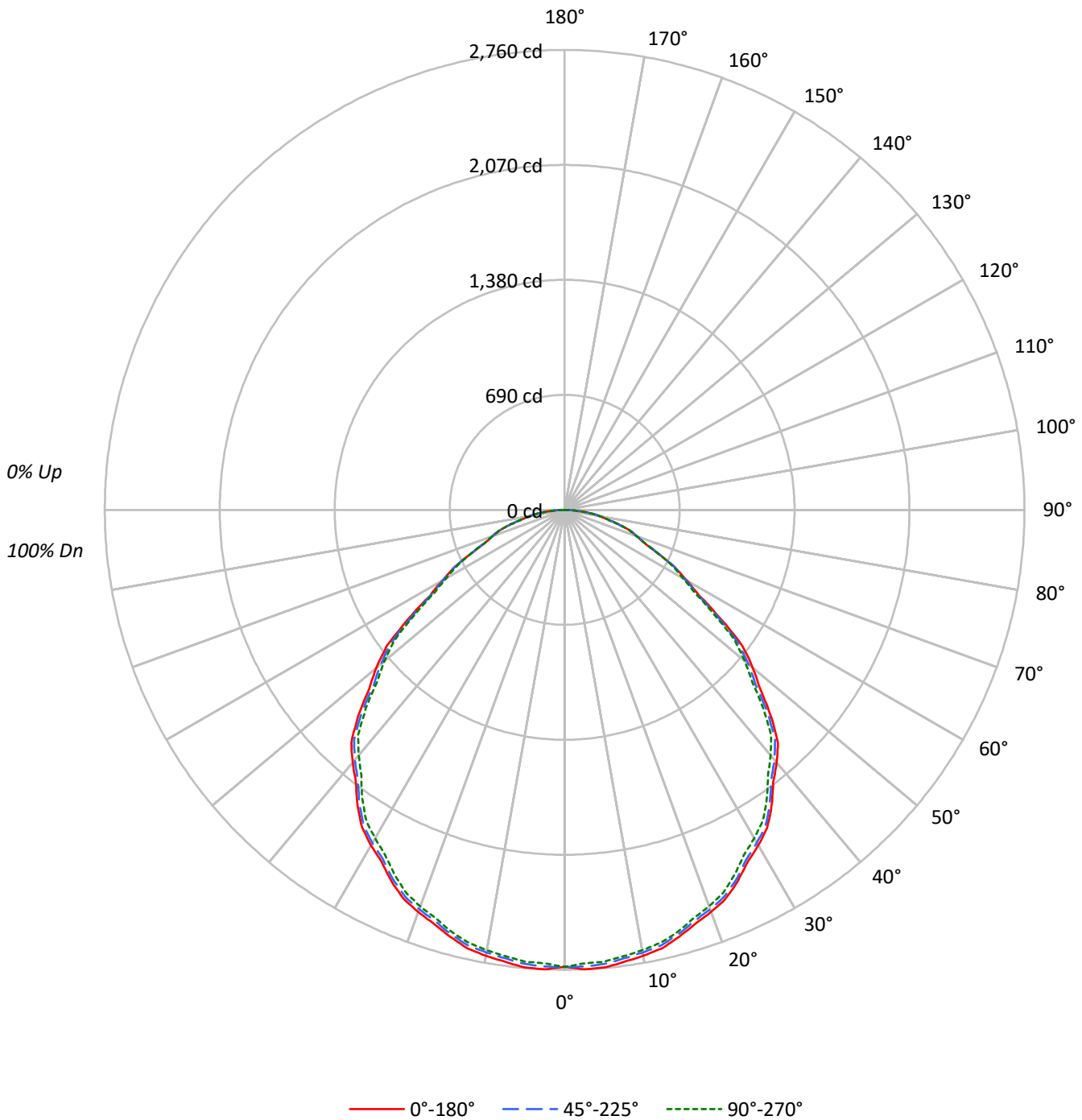
Lumens per Lamp: N/A
Luminaire Lumens: 6856.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16762
15°	16894	16789	16698
20°	16809	16700	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14107	13767	13496
55°	12312	12034	11780
60°	10375	10288	10085
65°	8974	9009	8939
70°	8242	8285	8285
75°	7916	7916	7973
80°	7449	7531	7449
85°	5999	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	3.8
10°-20°	742.1	10.8
20°-30°	1119.3	16.3
30°-40°	1333.6	19.5
40°-50°	1314.9	19.2
50°-60°	1004.9	14.7
60°-70°	621.9	9.1
70°-80°	353.2	5.2
80°-90°	107.5	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°	2120.8	30.9
0°-40°	3454.4	50.4
0°-60°	5774.2	84.2
0°-90°	6856.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6856.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2757	2727	2736	2726	2722	262
15°	2653	2625	2636	2627	2622	749
25°	2459	2429	2443	2417	2414	1132
35°	2166	2141	2148	2119	2117	1352
45°	1753	1730	1722	1691	1687	1343
55°	1148	1130	1122	1103	1098	1029
65°	617	612	619	614	614	625
75°	333	333	333	336	336	352
85°	85	90	94	94	94	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2759.8	2735.8	2742.8	2736.8	2723.9
5°	2757.0	2726.9	2735.7	2726.1	2721.5
7.5°	2735.7	2706.1	2714.9	2705.4	2702.6
10°	2716.8	2689.1	2697.9	2688.3	2683.7
12.5°	2696.0	2666.4	2677.1	2665.7	2661.0
15°	2653.0	2625.3	2636.5	2626.9	2622.3
17.5°	2605.8	2576.2	2587.3	2576.3	2570.3
20°	2568.0	2540.2	2551.4	2534.8	2532.5
22.5°	2526.4	2498.7	2509.8	2487.6	2487.2
25°	2459.3	2429.3	2442.8	2416.7	2414.4
27.5°	2379.4	2351.7	2362.9	2336.4	2333.6
30°	2324.6	2296.9	2308.1	2279.6	2275.0
32.5°	2262.3	2236.4	2245.7	2217.3	2214.5
35°	2166.4	2140.9	2147.5	2119.0	2116.7
37.5°	2057.2	2034.1	2037.8	2006.6	2004.3
40°	1979.7	1956.6	1958.5	1925.3	1923.0
42.5°	1894.7	1871.6	1869.6	1836.5	1834.2
45°	1752.9	1729.8	1722.2	1691.4	1686.8
47.5°	1591.3	1568.2	1554.0	1528.9	1525.7
50°	1474.2	1451.1	1438.7	1417.3	1410.4
52.5°	1347.5	1324.4	1314.0	1294.5	1287.5
55°	1148.1	1129.7	1122.2	1103.2	1098.5
57.5°	958.7	946.2	944.0	925.6	923.7
60°	843.4	836.5	836.3	819.8	819.8
62.5°	745.1	740.0	743.7	732.8	730.9
65°	616.6	612.0	619.0	614.2	614.2
67.5°	515.0	515.0	519.3	517.4	517.4
70°	458.3	458.3	460.7	460.7	460.7
72.5°	407.3	405.4	411.5	411.5	409.6
75°	333.1	333.1	333.1	335.5	335.5
77.5°	259.4	259.9	261.8	261.2	259.4
80°	210.3	212.6	212.6	210.3	210.3
82.5°	161.1	163.4	163.5	163.0	161.1
85°	85.0	89.7	94.5	94.5	94.5
87.5°	24.6	32.0	37.8	37.8	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)