

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: P564860

Luminaire Tested: **SQ4-PW1-0U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564860
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

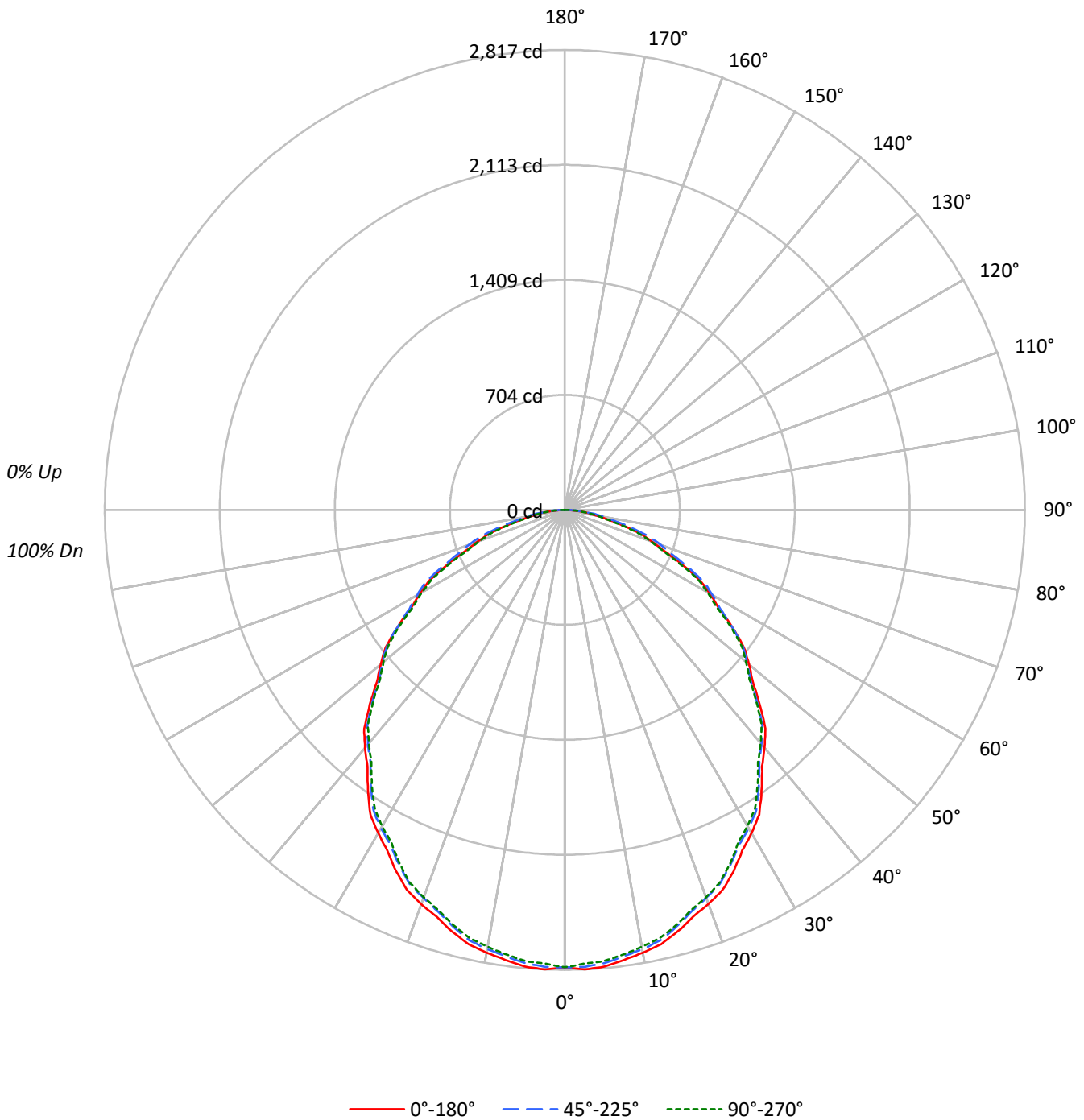
Lumens per Lamp: N/A
Luminaire Lumens: 7127.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 71.7
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12924	12924	12924
5°	13008	12904	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12174
30°	12175	11991	11912
35°	11829	11662	11593
40°	11460	11282	11238
45°	11014	10869	10821
50°	10558	10469	10398
55°	10065	10065	9906
60°	9451	9633	9292
65°	8648	9080	8433
70°	7623	8357	7424
75°	6511	7479	6335
80°	5050	6296	5114
85°	3266	4832	4314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.7
10°-20°	744.8	10.4
20°-30°	1104.8	15.5
30°-40°	1292.7	18.1
40°-50°	1287.0	18.1
50°-60°	1111.3	15.6
60°-70°	800.0	11.2
70°-80°	419.5	5.9
80°-90°	104.0	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°	2113.4	29.6
0°-40°	3406.1	47.8
0°-60°	5804.4	81.4
0°-90°	7127.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7127.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2802	2802	2802	2802	2802	
5°	2809	2778	2787	2779	2774	266
15°	2673	2639	2644	2638	2634	753
25°	2444	2403	2399	2385	2392	1124
35°	2100	2072	2071	2051	2059	1313
45°	1688	1674	1666	1661	1659	1303
55°	1251	1249	1251	1234	1232	1117
65°	792	816	832	799	773	785
75°	365	399	420	392	355	392
85°	62	81	91	86	82	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2801.6	2801.6	2801.6	2801.6	2801.6
2.5°	2817.4	2794.2	2801.6	2795.3	2781.8
5°	2809.0	2777.6	2786.7	2779.2	2774.4
7.5°	2780.3	2751.4	2758.1	2750.1	2747.3
10°	2754.7	2725.7	2732.4	2722.5	2717.6
12.5°	2725.0	2694.1	2700.8	2690.9	2688.0
15°	2673.2	2639.4	2643.6	2638.5	2633.7
17.5°	2613.0	2578.7	2579.4	2571.5	2570.5
20°	2569.5	2533.3	2530.0	2520.3	2525.1
22.5°	2522.1	2484.0	2480.7	2467.0	2473.8
25°	2443.6	2402.6	2399.2	2384.6	2391.8
27.5°	2352.8	2312.3	2312.3	2291.8	2299.5
30°	2285.7	2247.1	2251.1	2226.7	2236.3
32.5°	2214.6	2179.8	2182.0	2157.5	2167.2
35°	2100.5	2071.6	2070.9	2051.3	2058.6
37.5°	1984.0	1958.5	1954.4	1943.1	1945.0
40°	1903.1	1881.4	1873.5	1866.1	1866.1
42.5°	1818.2	1798.4	1790.5	1785.1	1783.1
45°	1688.3	1673.9	1666.1	1661.1	1658.7
47.5°	1560.0	1546.5	1539.7	1536.2	1533.8
50°	1471.1	1461.5	1458.8	1451.3	1448.9
52.5°	1382.3	1376.5	1373.9	1364.4	1362.0
55°	1251.4	1249.0	1251.4	1234.1	1231.7
57.5°	1115.2	1119.1	1127.0	1103.7	1097.9
60°	1024.4	1034.0	1044.1	1016.7	1007.1
62.5°	931.5	947.0	961.2	929.8	916.2
65°	792.3	816.5	831.8	799.1	772.6
67.5°	658.1	688.0	706.4	671.2	641.3
70°	565.2	599.0	619.6	584.2	550.4
72.5°	484.3	521.9	538.6	505.2	471.5
75°	365.3	399.1	419.6	391.6	355.4
77.5°	259.2	291.0	308.0	283.7	253.7
80°	190.1	223.9	237.0	216.7	192.5
82.5°	134.8	162.8	171.8	159.6	143.2
85°	61.7	81.0	91.3	86.3	81.5
87.5°	15.8	29.3	37.5	37.6	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)