

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: P564880

Luminaire Tested: **SQ4-PW1-0U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564880
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

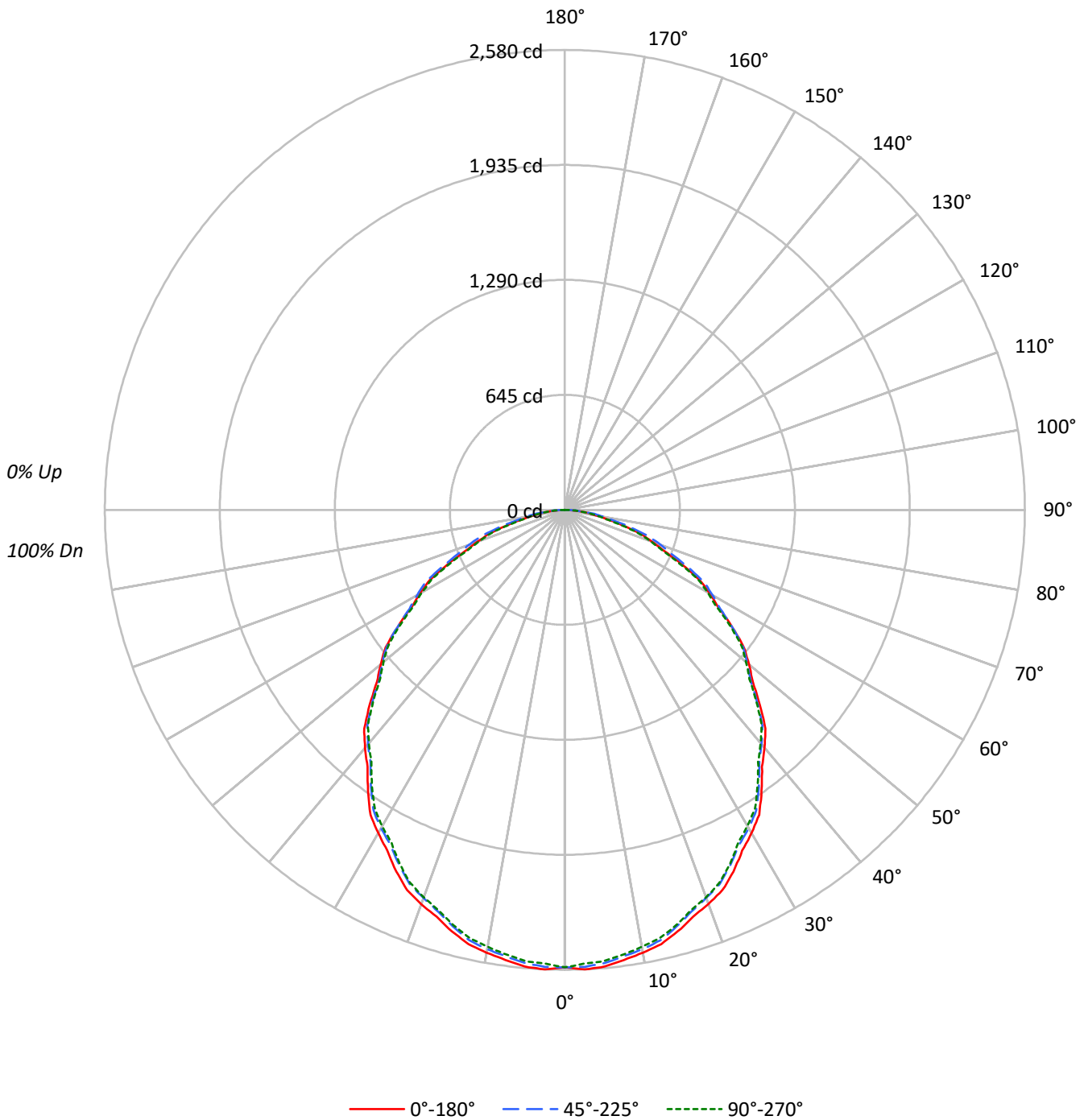
Lumens per Lamp: N/A
Luminaire Lumens: 6528.2 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	11837	11837	11837
5°	11913	11819	11767
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11392	11185	11150
30°	11151	10982	10910
35°	10834	10681	10618
40°	10496	10333	10292
45°	10088	9955	9911
50°	9670	9589	9523
55°	9219	9219	9073
60°	8656	8823	8510
65°	7921	8315	7724
70°	6983	7653	6799
75°	5964	6850	5802
80°	4625	5765	4684
85°	2991	4425	3949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	3.7
10°-20°	682.1	10.4
20°-30°	1011.9	15.5
30°-40°	1184.0	18.1
40°-50°	1178.7	18.1
50°-60°	1017.8	15.6
60°-70°	732.7	11.2
70°-80°	384.2	5.9
80°-90°	95.2	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°	1935.6	29.7
0°-40°	3119.6	47.8
0°-60°	5316.1	81.4
0°-90°	6528.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6528.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2566	2566	2566	2566	2566	
5°	2573	2544	2552	2545	2541	244
15°	2448	2417	2421	2416	2412	690
25°	2238	2200	2197	2184	2191	1029
35°	1924	1897	1897	1879	1885	1203
45°	1546	1533	1526	1521	1519	1193
55°	1146	1144	1146	1130	1128	1023
65°	726	748	762	732	708	719
75°	335	366	384	359	326	359
85°	56	74	84	79	75	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.9	2565.9	2565.9	2565.9	2565.9
2.5°	2580.3	2559.1	2565.9	2560.1	2547.8
5°	2572.6	2543.9	2552.3	2545.4	2541.0
7.5°	2546.4	2519.9	2526.1	2518.8	2516.1
10°	2522.9	2496.4	2502.6	2493.4	2489.0
12.5°	2495.8	2467.5	2473.6	2464.5	2461.9
15°	2448.3	2417.4	2421.2	2416.5	2412.1
17.5°	2393.1	2361.8	2362.4	2355.1	2354.3
20°	2353.4	2320.2	2317.2	2308.2	2312.7
22.5°	2309.9	2275.0	2272.0	2259.4	2265.6
25°	2238.1	2200.5	2197.4	2184.0	2190.6
27.5°	2154.9	2117.7	2117.8	2099.0	2106.0
30°	2093.4	2058.0	2061.7	2039.3	2048.2
32.5°	2028.3	1996.4	1998.4	1976.0	1984.9
35°	1923.8	1897.3	1896.7	1878.8	1885.4
37.5°	1817.1	1793.7	1790.0	1779.6	1781.4
40°	1743.0	1723.1	1715.8	1709.1	1709.1
42.5°	1665.2	1647.1	1639.9	1634.9	1633.1
45°	1546.3	1533.0	1525.9	1521.4	1519.2
47.5°	1428.7	1416.4	1410.2	1407.0	1404.8
50°	1347.4	1338.5	1336.1	1329.2	1327.0
52.5°	1266.0	1260.7	1258.3	1249.6	1247.4
55°	1146.2	1143.9	1146.2	1130.3	1128.1
57.5°	1021.4	1024.9	1032.2	1010.8	1005.5
60°	938.2	947.0	956.3	931.2	922.4
62.5°	853.2	867.3	880.3	851.5	839.2
65°	725.7	747.8	761.8	731.9	707.6
67.5°	602.7	630.1	647.0	614.7	587.3
70°	517.7	548.6	567.4	535.1	504.1
72.5°	443.5	478.0	493.3	462.7	431.8
75°	334.6	365.5	384.3	358.7	325.5
77.5°	237.4	266.5	282.1	259.8	232.4
80°	174.1	205.0	217.0	198.4	176.3
82.5°	123.4	149.1	157.3	146.1	131.1
85°	56.5	74.2	83.6	79.0	74.6
87.5°	14.5	26.8	34.4	34.4	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)