

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: P564864

Luminaire Tested: **SQ4-PW1-0U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564864
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7551.6 lumens
Efficiency: N/A
Efficacy: 105.3 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

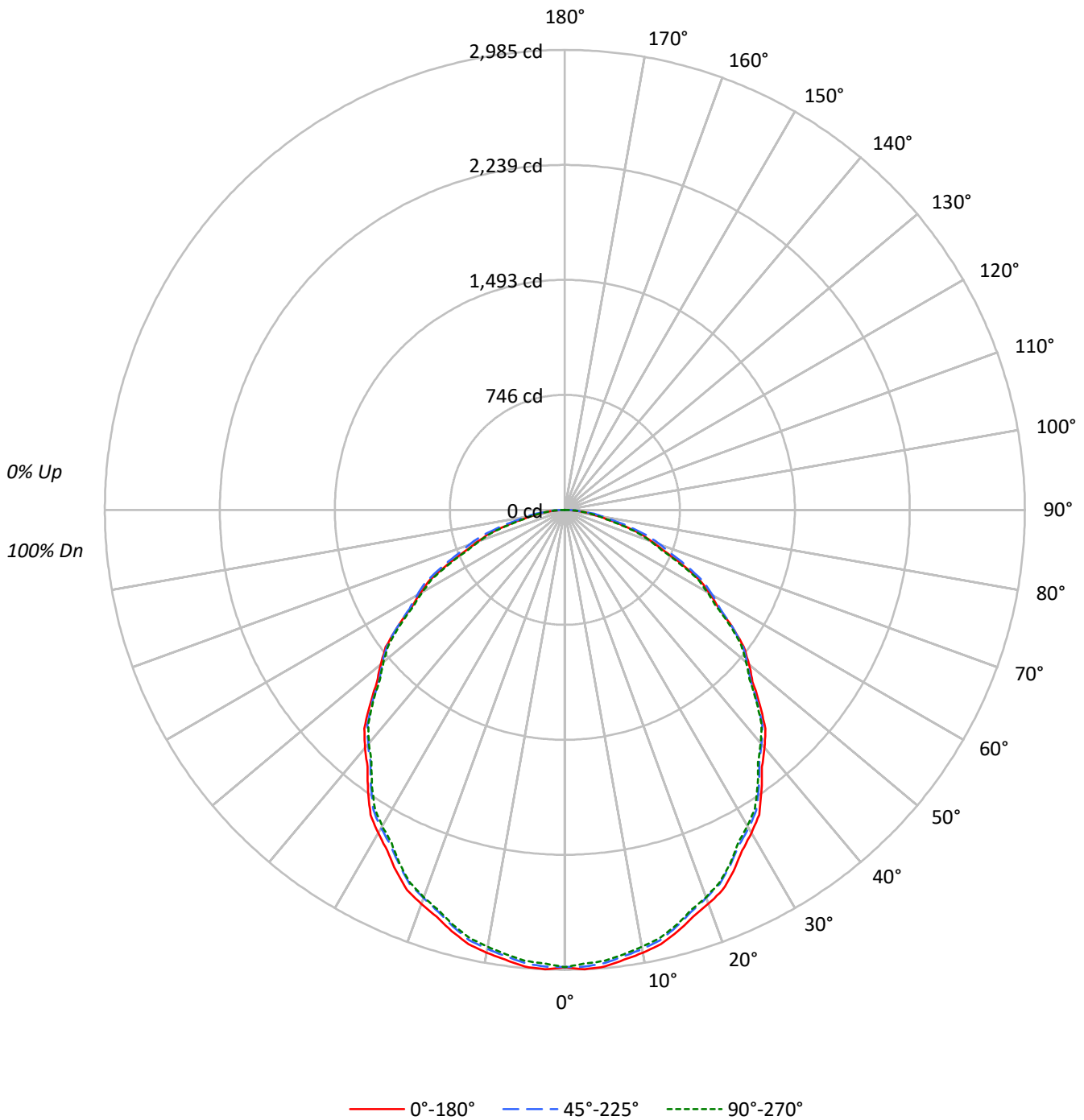
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	13692	13692	13692
5°	13781	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13177	12938	12898
30°	12899	12704	12620
35°	12532	12356	12282
40°	12142	11952	11905
45°	11669	11516	11464
50°	11186	11092	11016
55°	10663	10663	10495
60°	10012	10206	9843
65°	9162	9620	8934
70°	8076	8853	7866
75°	6898	7924	6712
80°	5350	6668	5419
85°	3462	5124	4568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	3.7
10°-20°	789.1	10.4
20°-30°	1170.5	15.5
30°-40°	1369.6	18.1
40°-50°	1363.5	18.1
50°-60°	1177.4	15.6
60°-70°	847.5	11.2
70°-80°	444.4	5.9
80°-90°	110.2	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°	2239.0	29.6
0°-40°	3608.6	47.8
0°-60°	6149.5	81.4
0°-90°	7551.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7551.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2976	2943	2952	2944	2939	282
15°	2832	2796	2801	2795	2790	798
25°	2589	2545	2542	2526	2534	1190
35°	2225	2195	2194	2173	2181	1391
45°	1789	1773	1765	1760	1757	1380
55°	1326	1323	1326	1308	1305	1183
65°	839	865	881	847	818	832
75°	387	423	445	415	377	415
85°	65	86	97	91	86	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2968.1	2968.1	2968.1	2968.1	2968.1
2.5°	2984.8	2960.3	2968.1	2961.5	2947.2
5°	2975.9	2942.7	2952.4	2944.4	2939.3
7.5°	2945.6	2914.9	2922.1	2913.6	2910.6
10°	2918.4	2887.7	2894.9	2884.3	2879.2
12.5°	2887.0	2854.3	2861.4	2850.9	2847.8
15°	2832.1	2796.3	2800.7	2795.4	2790.3
17.5°	2768.3	2732.0	2732.7	2724.3	2723.3
20°	2722.3	2683.9	2680.4	2670.1	2675.2
22.5°	2672.1	2631.7	2628.1	2613.6	2620.8
25°	2588.9	2545.4	2541.8	2526.3	2534.0
27.5°	2492.7	2449.7	2449.8	2428.0	2436.2
30°	2421.5	2380.6	2384.9	2359.0	2369.2
32.5°	2346.2	2309.4	2311.7	2285.8	2296.0
35°	2225.4	2194.7	2194.0	2173.3	2181.0
37.5°	2102.0	2074.9	2070.6	2058.6	2060.7
40°	2016.2	1993.2	1984.8	1977.0	1977.0
42.5°	1926.2	1905.3	1897.0	1891.2	1889.1
45°	1788.7	1773.4	1765.2	1759.9	1757.3
47.5°	1652.7	1638.4	1631.3	1627.6	1625.0
50°	1558.6	1548.3	1545.5	1537.6	1535.0
52.5°	1464.4	1458.3	1455.5	1445.5	1443.0
55°	1325.8	1323.3	1325.8	1307.5	1304.9
57.5°	1181.5	1185.6	1194.0	1169.3	1163.2
60°	1085.2	1095.5	1106.2	1077.2	1066.9
62.5°	986.9	1003.3	1018.3	985.0	970.7
65°	839.4	865.0	881.3	846.6	818.5
67.5°	697.2	728.9	748.4	711.1	679.4
70°	598.8	634.6	656.4	619.0	583.2
72.5°	513.1	553.0	570.6	535.3	499.5
75°	387.0	422.8	444.6	414.9	376.6
77.5°	274.6	308.3	326.4	300.5	268.8
80°	201.4	237.2	251.0	229.5	204.0
82.5°	142.8	172.4	182.0	169.1	151.7
85°	65.4	85.8	96.8	91.4	86.3
87.5°	16.7	31.1	39.7	39.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)