

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: P564899

Luminaire Tested: **SQ4-PW1-0U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564899
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-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

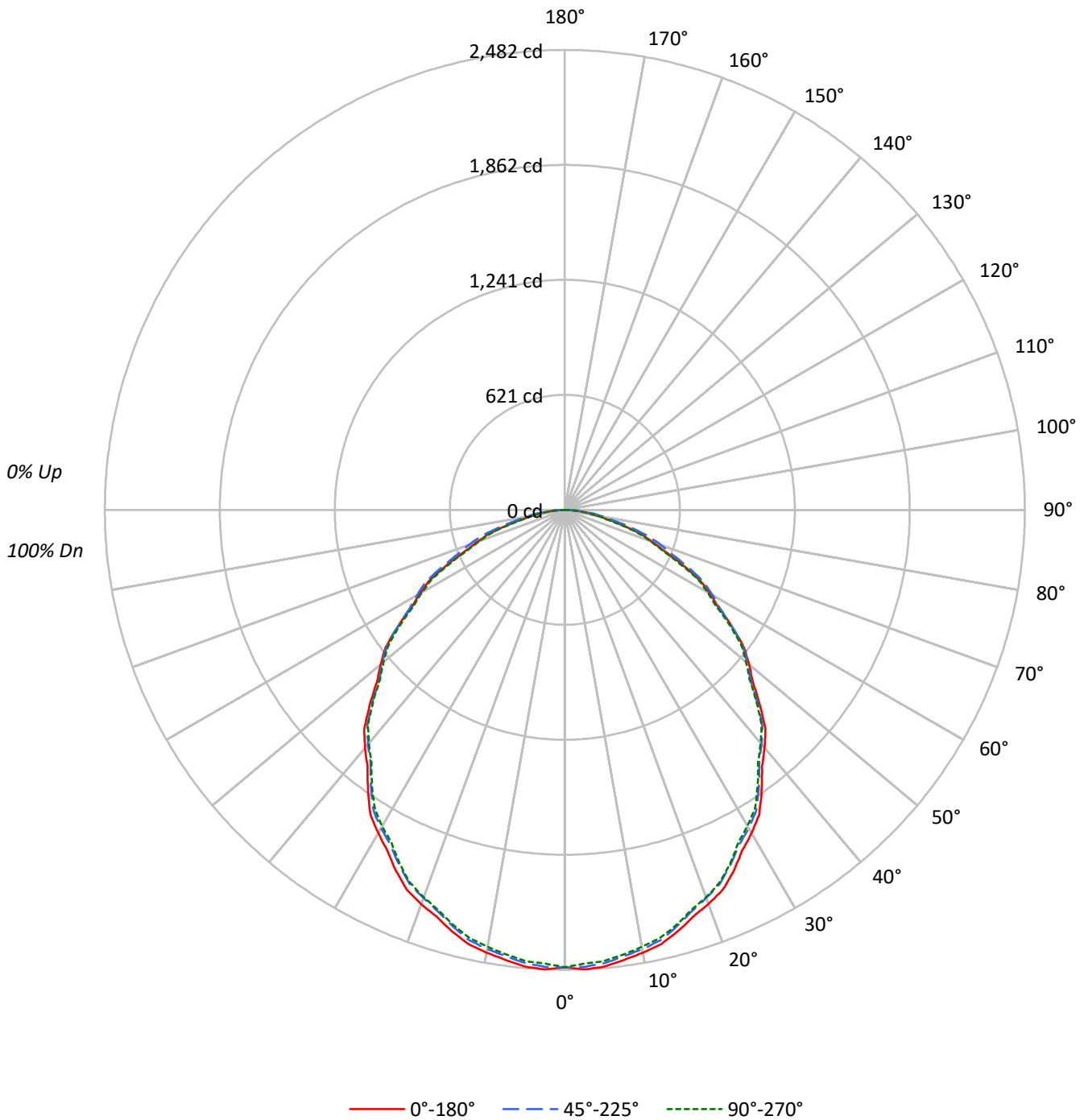
Lumens per Lamp: N/A
Luminaire Lumens: 6280.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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	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°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14997	14831	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12402	12299	12216
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9817	8722
75°	7650	8786	7443
80°	5933	7396	6007
85°	3839	5681	5067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.7
10°-20°	656.2	10.4
20°-30°	973.4	15.5
30°-40°	1139.0	18.1
40°-50°	1133.9	18.1
50°-60°	979.1	15.6
60°-70°	704.8	11.2
70°-80°	369.6	5.9
80°-90°	91.6	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°	1862.0	29.6
0°-40°	3001.0	47.8
0°-60°	5114.0	81.4
0°-90°	6280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2475	2447	2455	2449	2444	234
15°	2355	2326	2329	2325	2320	664
25°	2153	2117	2114	2101	2107	990
35°	1851	1825	1825	1807	1814	1157
45°	1488	1475	1468	1464	1461	1148
55°	1103	1100	1103	1087	1085	984
65°	698	719	733	704	681	692
75°	322	352	370	345	313	345
85°	54	71	80	76	72	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.3	2468.3	2468.3	2468.3	2468.3
2.5°	2482.2	2461.8	2468.3	2462.8	2450.9
5°	2474.8	2447.2	2455.3	2448.6	2444.4
7.5°	2449.6	2424.1	2430.0	2423.0	2420.5
10°	2427.0	2401.5	2407.4	2398.6	2394.4
12.5°	2400.9	2373.7	2379.6	2370.8	2368.3
15°	2355.2	2325.5	2329.1	2324.7	2320.4
17.5°	2302.2	2272.0	2272.6	2265.6	2264.8
20°	2263.9	2232.0	2229.1	2220.5	2224.7
22.5°	2222.1	2188.5	2185.6	2173.6	2179.5
25°	2153.0	2116.8	2113.8	2100.9	2107.3
27.5°	2072.9	2037.2	2037.3	2019.2	2026.0
30°	2013.8	1979.8	1983.3	1961.8	1970.3
32.5°	1951.2	1920.5	1922.5	1900.9	1909.4
35°	1850.7	1825.2	1824.6	1807.3	1813.7
37.5°	1748.0	1725.5	1721.9	1712.0	1713.7
40°	1676.7	1657.6	1650.6	1644.1	1644.1
42.5°	1601.9	1584.5	1577.5	1572.7	1571.0
45°	1487.5	1474.8	1467.9	1463.5	1461.4
47.5°	1374.4	1362.5	1356.6	1353.5	1351.4
50°	1296.1	1287.6	1285.3	1278.7	1276.6
52.5°	1217.8	1212.7	1210.5	1202.1	1200.0
55°	1102.6	1100.5	1102.6	1087.3	1085.2
57.5°	982.5	985.9	993.0	972.4	967.3
60°	902.5	911.0	919.9	895.8	887.3
62.5°	820.7	834.4	846.8	819.2	807.3
65°	698.1	719.4	732.9	704.1	680.7
67.5°	579.8	606.1	622.4	591.4	565.0
70°	498.0	527.8	545.9	514.7	485.0
72.5°	426.7	459.9	474.5	445.1	415.4
75°	321.9	351.6	369.7	345.1	313.2
77.5°	228.3	256.4	271.4	249.9	223.6
80°	167.5	197.2	208.8	190.9	169.6
82.5°	118.7	143.4	151.4	140.6	126.1
85°	54.4	71.4	80.5	76.0	71.8
87.5°	13.9	25.8	33.1	33.1	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)