

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: P564204

Luminaire Tested: **SQ4-PR1-0U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564204
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-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

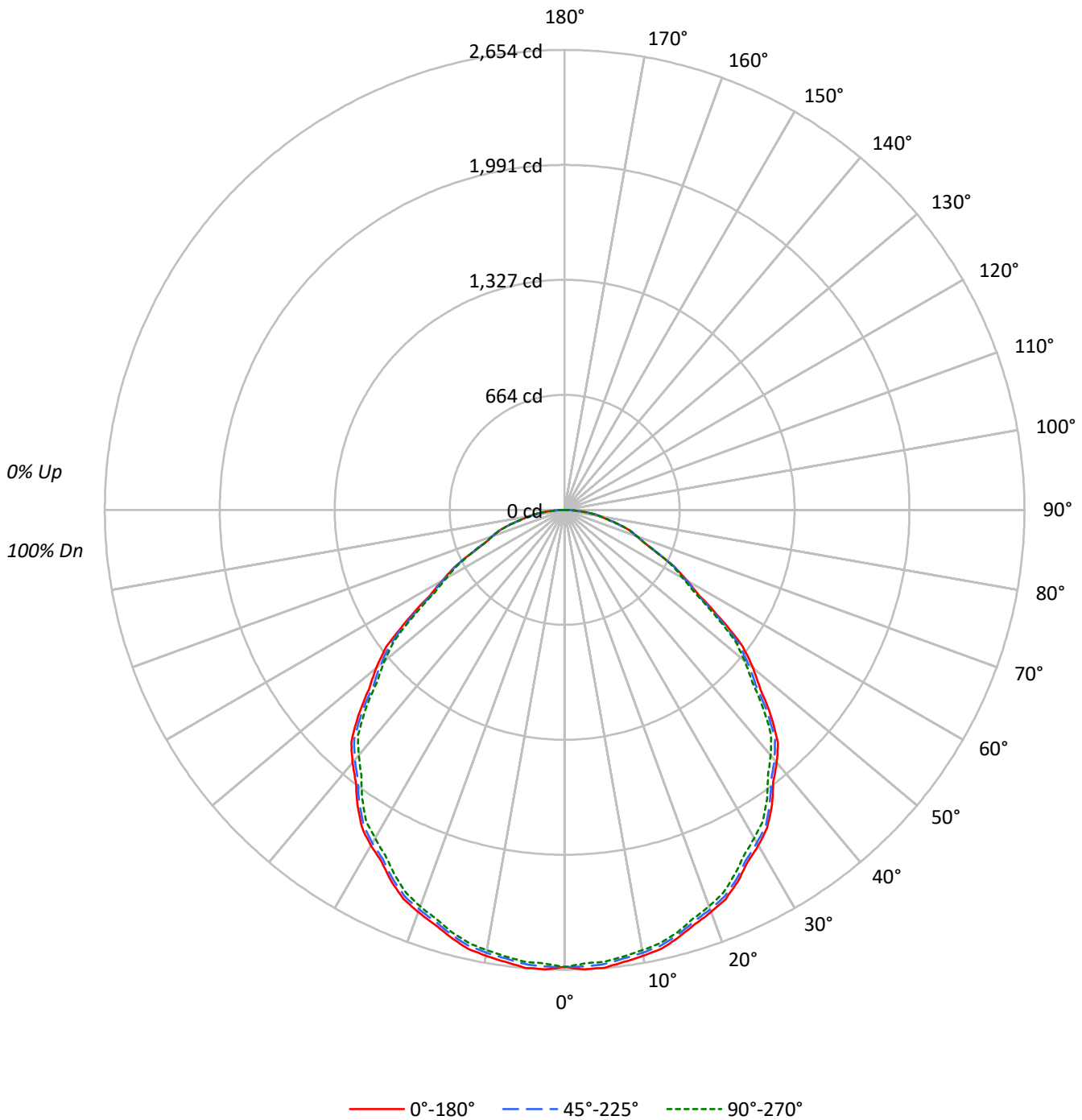
Lumens per Lamp: N/A
Luminaire Lumens: 6594.8 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12045
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11655
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9735
55°	8882	8680	8498
60°	7484	7422	7275
65°	6473	6498	6449
70°	5945	5976	5976
75°	5711	5711	5752
80°	5372	5433	5372
85°	4330	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.5	3.8
10°-20°	713.7	10.8
20°-30°	1076.5	16.3
30°-40°	1282.7	19.5
40°-50°	1264.6	19.2
50°-60°	966.5	14.7
60°-70°	598.1	9.1
70°-80°	339.7	5.2
80°-90°	103.3	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°	2039.8	30.9
0°-40°	3322.5	50.4
0°-60°	5553.6	84.2
0°-90°	6594.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6594.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2652	2623	2631	2622	2618	252
15°	2552	2525	2536	2527	2522	720
25°	2365	2336	2349	2324	2322	1089
35°	2084	2059	2065	2038	2036	1300
45°	1686	1664	1656	1627	1622	1292
55°	1104	1086	1079	1061	1057	989
65°	593	589	595	591	591	601
75°	320	320	320	323	323	338
85°	82	86	91	91	91	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.4	2631.3	2638.0	2632.3	2619.8
5°	2651.7	2622.8	2631.2	2622.0	2617.6
7.5°	2631.2	2602.8	2611.2	2602.1	2599.4
10°	2613.0	2586.4	2594.8	2585.7	2581.2
12.5°	2593.0	2564.6	2574.9	2563.8	2559.4
15°	2551.7	2525.0	2535.8	2526.6	2522.1
17.5°	2506.2	2477.8	2488.5	2477.9	2472.1
20°	2469.9	2443.2	2454.0	2438.0	2435.8
22.5°	2429.9	2403.2	2414.0	2392.6	2392.2
25°	2365.4	2336.5	2349.4	2324.4	2322.2
27.5°	2288.6	2261.9	2272.6	2247.1	2244.5
30°	2235.8	2209.2	2219.9	2192.6	2188.1
32.5°	2175.9	2151.0	2159.9	2132.6	2130.0
35°	2083.6	2059.2	2065.4	2038.1	2035.9
37.5°	1978.6	1956.4	1960.0	1930.0	1927.7
40°	1904.1	1881.9	1883.6	1851.8	1849.6
42.5°	1822.3	1800.1	1798.2	1766.4	1764.1
45°	1686.0	1663.8	1656.4	1626.8	1622.3
47.5°	1530.6	1508.3	1494.6	1470.5	1467.4
50°	1417.8	1395.6	1383.8	1363.2	1356.5
52.5°	1296.1	1273.8	1263.8	1245.0	1238.3
55°	1104.3	1086.5	1079.3	1061.0	1056.6
57.5°	922.1	910.1	908.0	890.2	888.4
60°	811.2	804.5	804.4	788.5	788.5
62.5°	716.7	711.8	715.3	704.8	703.0
65°	593.0	588.6	595.3	590.8	590.8
67.5°	495.3	495.3	499.4	497.6	497.6
70°	440.8	440.8	443.1	443.1	443.1
72.5°	391.7	389.9	395.8	395.8	394.0
75°	320.4	320.4	320.4	322.7	322.7
77.5°	249.5	249.9	251.8	251.3	249.5
80°	202.2	204.4	204.5	202.2	202.2
82.5°	155.0	157.2	157.2	156.7	155.0
85°	81.8	86.2	90.9	90.9	90.9
87.5°	23.6	30.7	36.4	36.3	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)