

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: P564210

Luminaire Tested: **SQ4-PR1-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564210
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-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

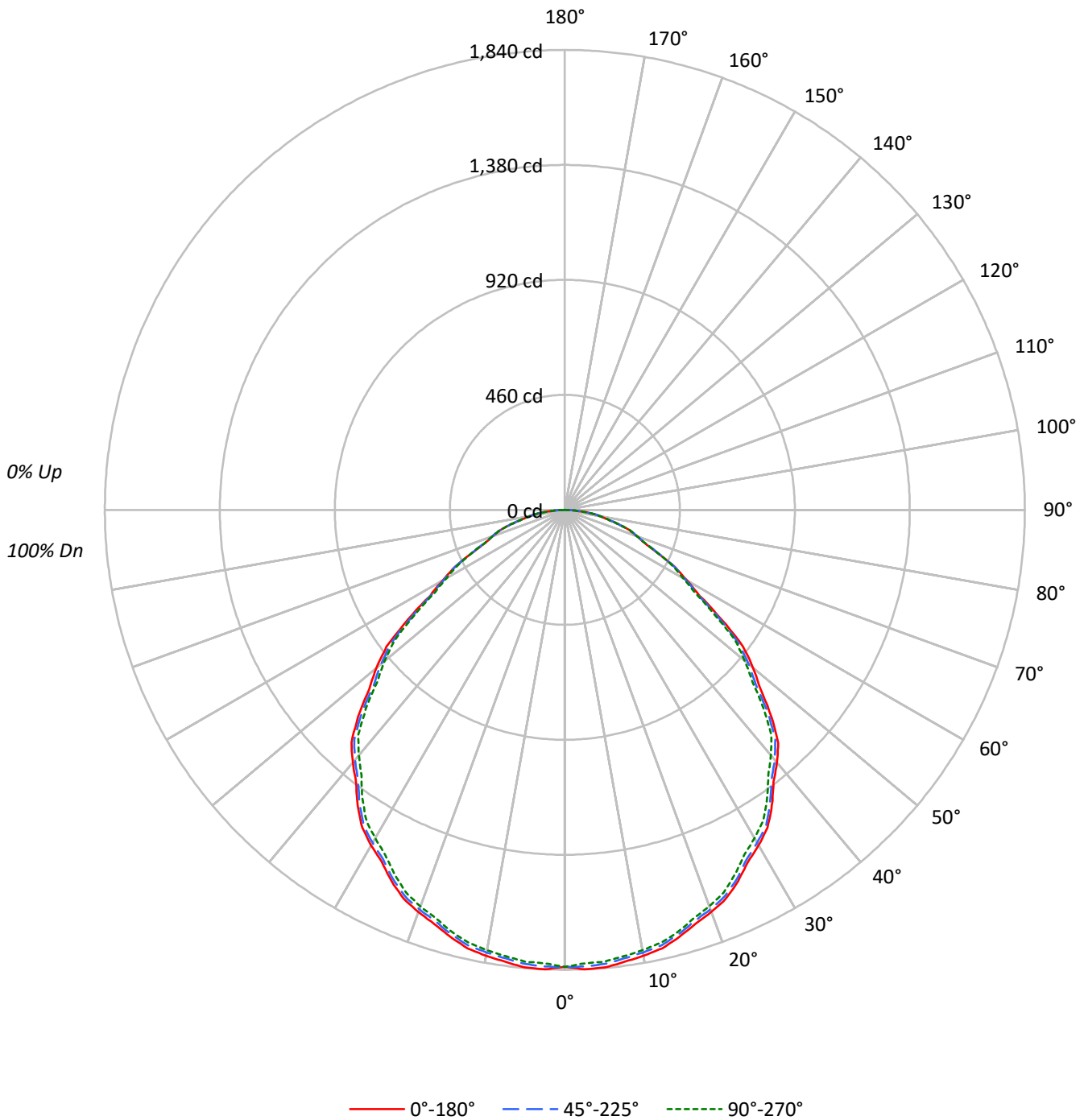
Lumens per Lamp: N/A
Luminaire Lumens: 4571.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16761
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16511	16393	16158
35°	16266	16124	15895
40°	15896	15725	15440
45°	15248	14980	14672
50°	14107	13766	13495
55°	12312	12033	11781
60°	10376	10287	10084
65°	8975	9007	8940
70°	8241	8284	8284
75°	7917	7917	7971
80°	7449	7529	7449
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	3.8
10°-20°	494.7	10.8
20°-30°	746.2	16.3
30°-40°	889.1	19.5
40°-50°	876.6	19.2
50°-60°	669.9	14.7
60°-70°	414.6	9.1
70°-80°	235.5	5.2
80°-90°	71.6	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°	1413.8	30.9
0°-40°	2302.9	50.4
0°-60°	3849.4	84.2
0°-90°	4571.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4571.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1838	1818	1824	1817	1814	174
15°	1769	1750	1758	1751	1748	499
25°	1640	1620	1628	1611	1610	755
35°	1444	1427	1432	1413	1411	901
45°	1169	1153	1148	1128	1124	895
55°	765	753	748	735	732	686
65°	411	408	413	410	410	416
75°	222	222	222	224	224	235
85°	57	60	63	63	63	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.5	1828.5	1828.5	1828.5	1828.5
2.5°	1839.9	1823.8	1828.5	1824.5	1815.9
5°	1838.0	1818.0	1823.8	1817.4	1814.3
7.5°	1823.8	1804.1	1809.9	1803.6	1801.7
10°	1811.2	1792.7	1798.6	1792.2	1789.1
12.5°	1797.3	1777.6	1784.7	1777.1	1774.0
15°	1768.7	1750.2	1757.6	1751.3	1748.2
17.5°	1737.2	1717.5	1724.9	1717.6	1713.6
20°	1712.0	1693.5	1701.0	1689.9	1688.4
22.5°	1684.3	1665.8	1673.2	1658.4	1658.1
25°	1639.5	1619.5	1628.5	1611.1	1609.6
27.5°	1586.3	1567.8	1575.3	1557.6	1555.7
30°	1549.8	1531.3	1538.7	1519.8	1516.7
32.5°	1508.2	1490.9	1497.2	1478.2	1476.4
35°	1444.2	1427.3	1431.6	1412.7	1411.2
37.5°	1371.5	1356.1	1358.6	1337.7	1336.2
40°	1319.8	1304.4	1305.6	1283.6	1282.0
42.5°	1263.1	1247.7	1246.4	1224.3	1222.8
45°	1168.6	1153.2	1148.1	1127.6	1124.5
47.5°	1060.9	1045.5	1036.0	1019.3	1017.1
50°	982.8	967.4	959.1	944.9	940.2
52.5°	898.4	883.0	876.0	863.0	858.4
55°	765.4	753.1	748.1	735.4	732.4
57.5°	639.1	630.8	629.4	617.0	615.8
60°	562.3	557.6	557.5	546.5	546.5
62.5°	496.7	493.4	495.8	488.5	487.3
65°	411.1	408.0	412.6	409.5	409.5
67.5°	343.3	343.3	346.2	344.9	344.9
70°	305.5	305.5	307.1	307.1	307.1
72.5°	271.5	270.3	274.4	274.3	273.1
75°	222.1	222.1	222.1	223.6	223.6
77.5°	172.9	173.2	174.5	174.2	172.9
80°	140.2	141.7	141.7	140.2	140.2
82.5°	107.4	109.0	109.0	108.6	107.4
85°	56.7	59.8	63.0	63.0	63.0
87.5°	16.4	21.3	25.2	25.2	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)