

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: P561965

Luminaire Tested: **SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561965
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-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4170.9 lumens
Efficiency: N/A
Efficacy: 98.6 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

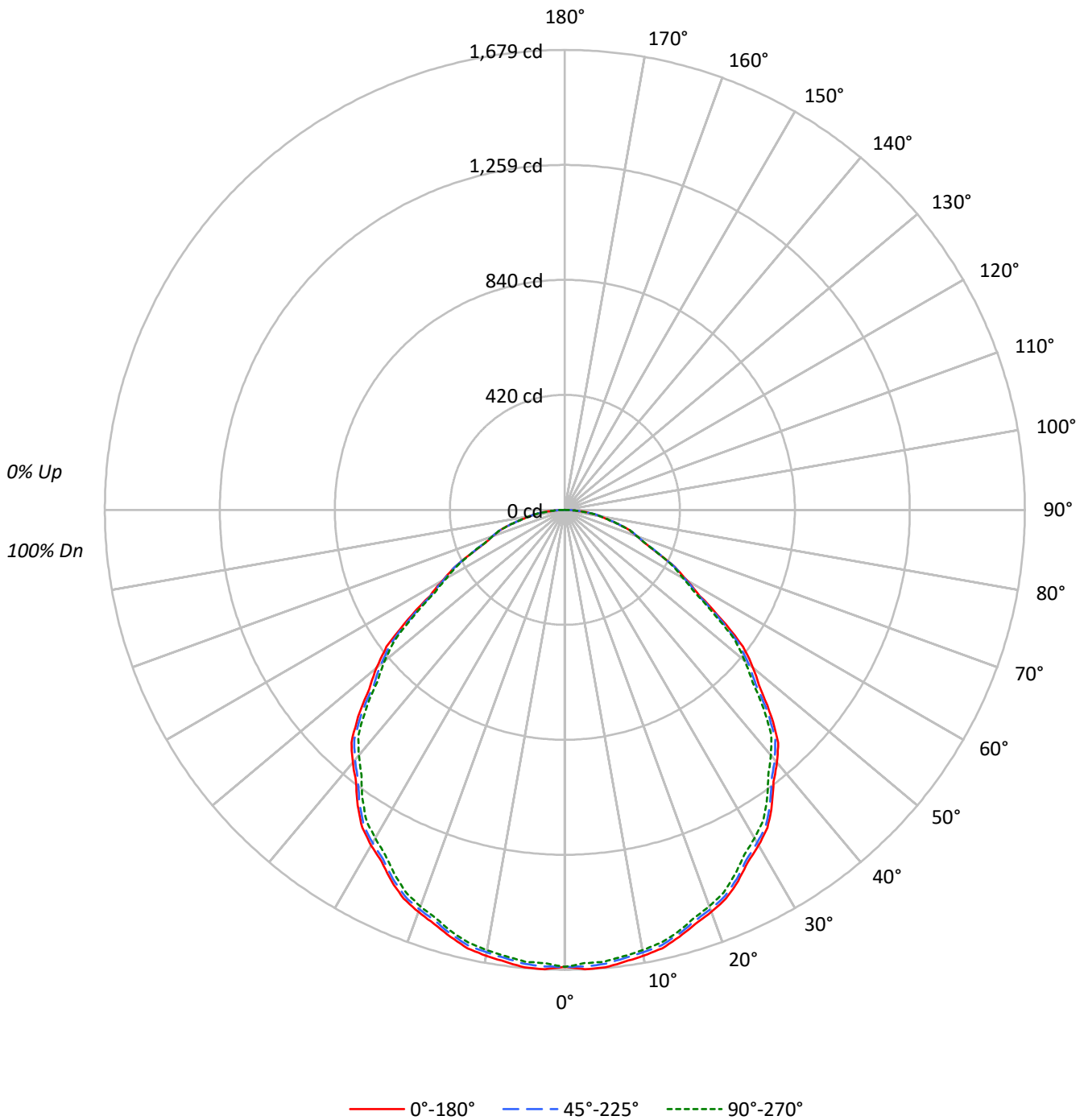
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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°	15393	15393	15393
5°	15532	15412	15332
10°	15482	15375	15294
15°	15414	15319	15236
20°	15337	15238	15125
25°	15229	15126	14951
30°	15065	14958	14743
35°	14843	14713	14502
40°	14505	14348	14089
45°	13913	13669	13388
50°	12871	12562	12314
55°	11234	10980	10748
60°	9466	9387	9202
65°	8189	8219	8156
70°	7521	7559	7559
75°	7222	7222	7276
80°	6796	6870	6796
85°	5473	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.8
10°-20°	451.4	10.8
20°-30°	680.9	16.3
30°-40°	811.3	19.5
40°-50°	799.8	19.2
50°-60°	611.3	14.7
60°-70°	378.3	9.1
70°-80°	214.8	5.2
80°-90°	65.3	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°	1290.0	30.9
0°-40°	2101.3	50.4
0°-60°	3512.4	84.2
0°-90°	4170.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4170.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1677	1659	1664	1658	1656	159
15°	1614	1597	1604	1598	1595	455
25°	1496	1478	1486	1470	1469	688
35°	1318	1302	1306	1289	1288	822
45°	1066	1052	1048	1029	1026	817
55°	698	687	683	671	668	626
65°	375	372	376	374	374	380
75°	203	203	203	204	204	214
85°	52	54	58	58	58	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.8	1664.2	1668.4	1664.8	1656.9
5°	1677.1	1658.8	1664.1	1658.3	1655.5
7.5°	1664.1	1646.1	1651.5	1645.7	1644.0
10°	1652.6	1635.8	1641.1	1635.3	1632.5
12.5°	1640.0	1622.0	1628.5	1621.5	1618.7
15°	1613.8	1597.0	1603.8	1597.9	1595.1
17.5°	1585.1	1567.1	1573.9	1567.2	1563.5
20°	1562.1	1545.2	1552.0	1541.9	1540.5
22.5°	1536.8	1519.9	1526.7	1513.2	1512.9
25°	1496.0	1477.7	1485.9	1470.1	1468.7
27.5°	1447.4	1430.5	1437.3	1421.2	1419.5
30°	1414.1	1397.2	1404.0	1386.7	1383.9
32.5°	1376.1	1360.4	1366.1	1348.8	1347.1
35°	1317.8	1302.3	1306.3	1289.0	1287.6
37.5°	1251.4	1237.3	1239.6	1220.6	1219.2
40°	1204.3	1190.2	1191.3	1171.2	1169.8
42.5°	1152.5	1138.5	1137.3	1117.1	1115.7
45°	1066.3	1052.2	1047.6	1028.9	1026.1
47.5°	968.0	954.0	945.3	930.0	928.1
50°	896.7	882.7	875.2	862.1	857.9
52.5°	819.7	805.6	799.3	787.4	783.2
55°	698.4	687.2	682.6	671.0	668.2
57.5°	583.2	575.6	574.2	563.0	561.9
60°	513.0	508.8	508.7	498.7	498.7
62.5°	453.2	450.2	452.4	445.8	444.6
65°	375.1	372.3	376.5	373.6	373.6
67.5°	313.3	313.3	315.9	314.7	314.7
70°	278.8	278.8	280.2	280.2	280.2
72.5°	247.7	246.6	250.3	250.3	249.2
75°	202.6	202.6	202.6	204.1	204.1
77.5°	157.8	158.1	159.2	158.9	157.8
80°	127.9	129.3	129.3	127.9	127.9
82.5°	98.0	99.4	99.4	99.1	98.0
85°	51.7	54.5	57.5	57.5	57.5
87.5°	14.9	19.4	23.0	23.0	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)