

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: P523807

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523807  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM 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: 4195.7 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

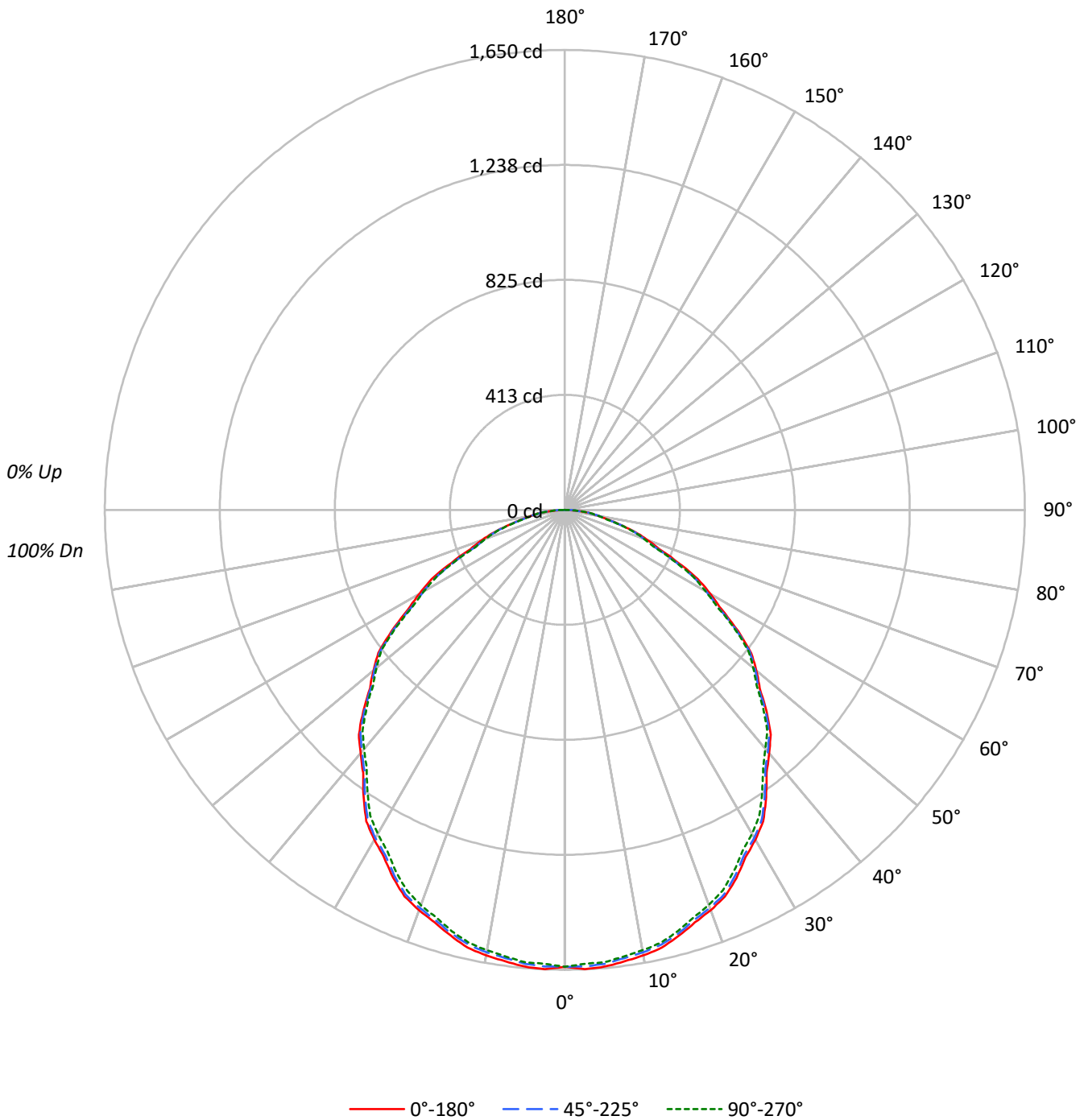
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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				
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15125	15125	15125
5°	15235	15142	15089
10°	15210	15102	15035
15°	15109	15027	14945
20°	15009	14925	14812
25°	14830	14728	14582
30°	14556	14479	14296
35°	14176	14079	13900
40°	13722	13635	13480
45°	13347	13254	13122
50°	12868	12786	12661
55°	12202	12040	11948
60°	11108	10789	10737
65°	9787	9379	9346
70°	8449	8101	8101
75°	7272	7169	7069
80°	6413	6487	6333
85°	5018	5473	5473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	3.7
10°-20°	442.6	10.5
20°-30°	663.0	15.8
30°-40°	777.6	18.5
40°-50°	780.0	18.6
50°-60°	665.5	15.9
60°-70°	434.0	10.3
70°-80°	217.7	5.2
80°-90°	60.2	1.4
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°	1260.6	30.0
0°-40°	2038.2	48.6
0°-60°	3483.7	83.0
0°-90°	4195.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1645	1630	1635	1629	1629	156
15°	1582	1566	1573	1567	1565	446
25°	1457	1440	1447	1434	1432	670
35°	1259	1246	1250	1236	1234	786
45°	1023	1016	1016	1006	1006	788
55°	759	756	748	744	743	674
65°	448	440	430	427	428	447
75°	204	204	201	200	198	221
85°	47	52	52	52	52	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1649.6	1636.2	1639.3	1636.9	1630.1
5°	1645.0	1629.6	1635.0	1629.2	1629.2
7.5°	1633.8	1617.0	1622.3	1616.6	1616.3
10°	1623.5	1606.6	1612.0	1606.2	1604.8
12.5°	1608.6	1591.7	1598.2	1591.3	1591.0
15°	1581.8	1566.4	1573.2	1567.4	1564.6
17.5°	1551.7	1534.8	1543.0	1535.0	1533.8
20°	1528.7	1511.8	1520.1	1508.6	1508.6
22.5°	1501.1	1484.2	1493.6	1478.7	1478.7
25°	1456.8	1440.0	1446.8	1433.8	1432.4
27.5°	1404.3	1387.7	1394.8	1380.1	1379.8
30°	1366.3	1350.9	1359.1	1343.3	1341.9
32.5°	1324.9	1310.6	1316.6	1300.8	1299.4
35°	1258.6	1245.9	1250.0	1235.6	1234.1
37.5°	1188.7	1175.8	1180.4	1168.0	1167.5
40°	1139.3	1130.9	1132.1	1122.0	1119.2
42.5°	1093.3	1083.8	1085.0	1074.9	1074.4
45°	1022.9	1015.9	1015.8	1005.7	1005.7
47.5°	948.2	942.9	941.3	933.0	932.7
50°	896.5	892.3	890.8	883.6	882.1
52.5°	842.5	840.5	835.6	829.6	829.3
55°	758.6	755.8	748.5	744.2	742.8
57.5°	667.5	661.9	653.7	647.4	648.5
60°	602.0	596.4	584.7	581.9	581.9
62.5°	538.8	532.0	520.4	516.4	518.7
65°	448.3	439.8	429.6	426.7	428.1
67.5°	366.1	358.5	347.4	347.4	346.3
70°	313.2	309.0	300.3	300.3	300.3
72.5°	266.1	264.1	257.7	257.7	256.6
75°	204.0	204.0	201.1	199.7	198.3
77.5°	152.9	153.4	152.0	150.5	148.0
80°	120.7	123.5	122.1	120.7	119.2
82.5°	90.8	93.6	93.4	90.8	90.5
85°	47.4	51.6	51.7	51.7	51.7
87.5°	12.6	17.1	18.4	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)