

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: P523805

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523805
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.5 lumens
Efficiency: N/A
Efficacy: 96.7 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

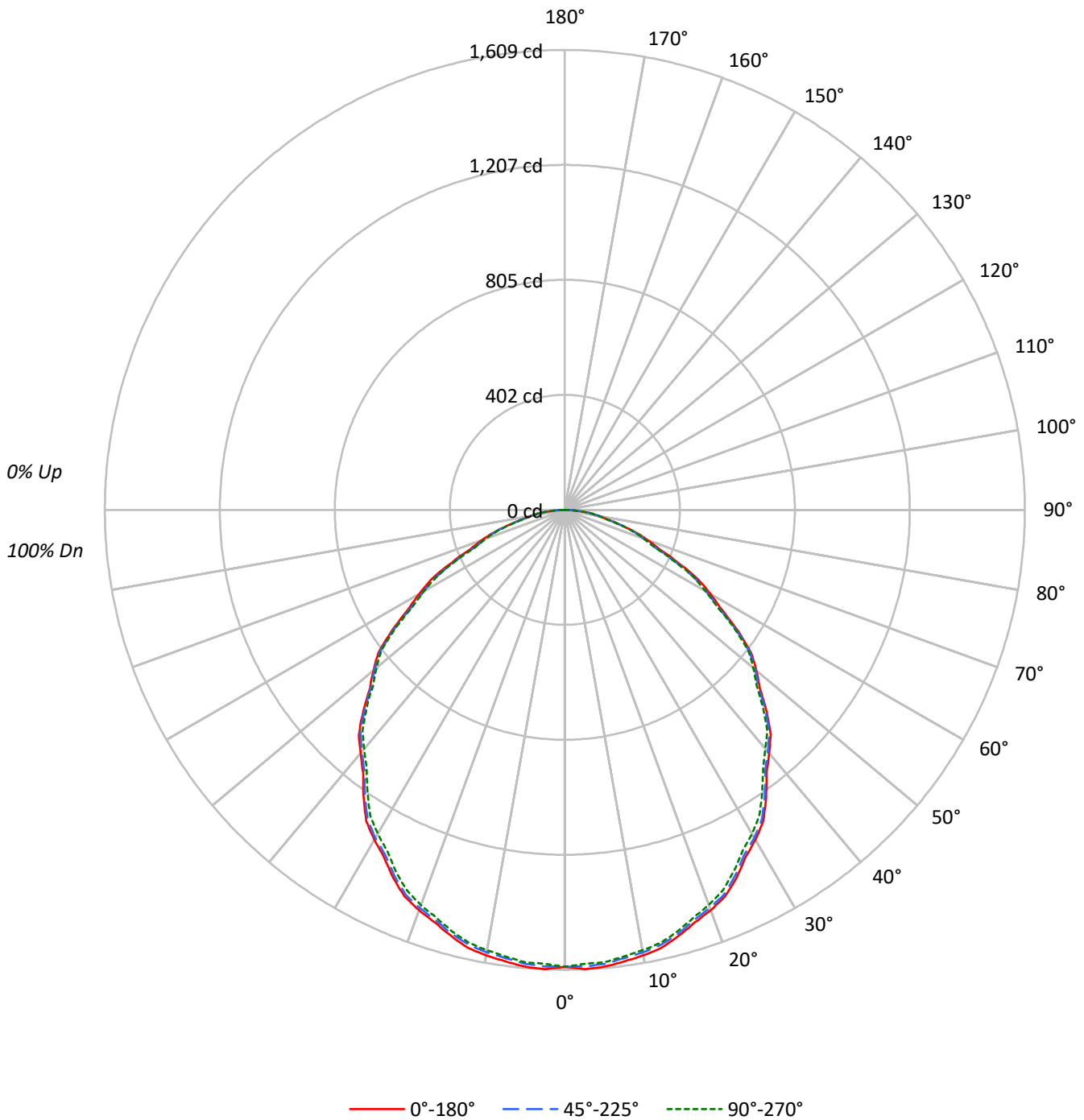
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14749	14749	14749
5°	14857	14766	14715
10°	14832	14727	14662
15°	14734	14653	14573
20°	14636	14554	14444
25°	14463	14363	14219
30°	14195	14120	13941
35°	13823	13729	13555
40°	13381	13297	13145
45°	13015	12924	12796
50°	12549	12467	12347
55°	11900	11741	11651
60°	10832	10522	10470
65°	9542	9145	9114
70°	8238	7898	7898
75°	7090	6990	6891
80°	6254	6328	6179
85°	4891	5335	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.7
10°-20°	431.6	10.5
20°-30°	646.5	15.8
30°-40°	758.3	18.5
40°-50°	760.7	18.6
50°-60°	648.9	15.9
60°-70°	423.2	10.3
70°-80°	212.3	5.2
80°-90°	58.8	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°	1229.3	30.0
0°-40°	1987.6	48.6
0°-60°	3397.2	83.0
0°-90°	4091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1604	1589	1594	1589	1589	152
15°	1543	1528	1534	1528	1526	435
25°	1421	1404	1411	1398	1397	653
35°	1227	1215	1219	1205	1204	767
45°	998	991	990	981	981	768
55°	740	737	730	726	724	657
65°	437	429	419	416	418	436
75°	199	199	196	195	193	216
85°	46	50	50	50	50	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.6	1598.6	1598.6	1598.6	1598.6
2.5°	1608.7	1595.5	1598.6	1596.2	1589.6
5°	1604.2	1589.1	1594.4	1588.8	1588.8
7.5°	1593.3	1576.8	1582.1	1576.4	1576.2
10°	1583.2	1566.7	1572.0	1566.3	1565.0
12.5°	1568.6	1552.2	1558.5	1551.8	1551.5
15°	1542.6	1527.5	1534.1	1528.5	1525.7
17.5°	1513.1	1496.7	1504.7	1496.9	1495.8
20°	1490.7	1474.3	1482.3	1471.1	1471.1
22.5°	1463.8	1447.4	1456.5	1442.0	1442.0
25°	1420.7	1404.2	1410.9	1398.2	1396.8
27.5°	1369.4	1353.2	1360.1	1345.8	1345.6
30°	1332.4	1317.3	1325.4	1309.9	1308.6
32.5°	1292.0	1278.1	1283.9	1268.5	1267.1
35°	1227.3	1215.0	1218.9	1204.9	1203.5
37.5°	1159.2	1146.6	1151.1	1139.0	1138.5
40°	1111.0	1102.8	1104.0	1094.2	1091.4
42.5°	1066.2	1056.9	1058.1	1048.2	1047.7
45°	997.5	990.7	990.5	980.7	980.7
47.5°	924.7	919.5	918.0	909.8	909.6
50°	874.3	870.1	868.6	861.6	860.2
52.5°	821.6	819.7	814.8	809.0	808.7
55°	739.8	737.0	729.9	725.7	724.3
57.5°	650.9	645.4	637.5	631.3	632.4
60°	587.0	581.6	570.2	567.4	567.4
62.5°	525.4	518.8	507.5	503.6	505.8
65°	437.1	428.9	418.9	416.1	417.5
67.5°	357.0	349.6	338.8	338.7	337.7
70°	305.4	301.3	292.8	292.8	292.8
72.5°	259.5	257.6	251.3	251.3	250.2
75°	198.9	198.9	196.1	194.7	193.3
77.5°	149.1	149.6	148.2	146.8	144.3
80°	117.7	120.4	119.1	117.7	116.3
82.5°	88.5	91.3	91.1	88.5	88.3
85°	46.2	50.3	50.4	50.4	50.4
87.5°	12.3	16.7	17.9	18.0	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)