

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: P523802

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523802
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.6 lumens
Efficiency: N/A
Efficacy: 91.1 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

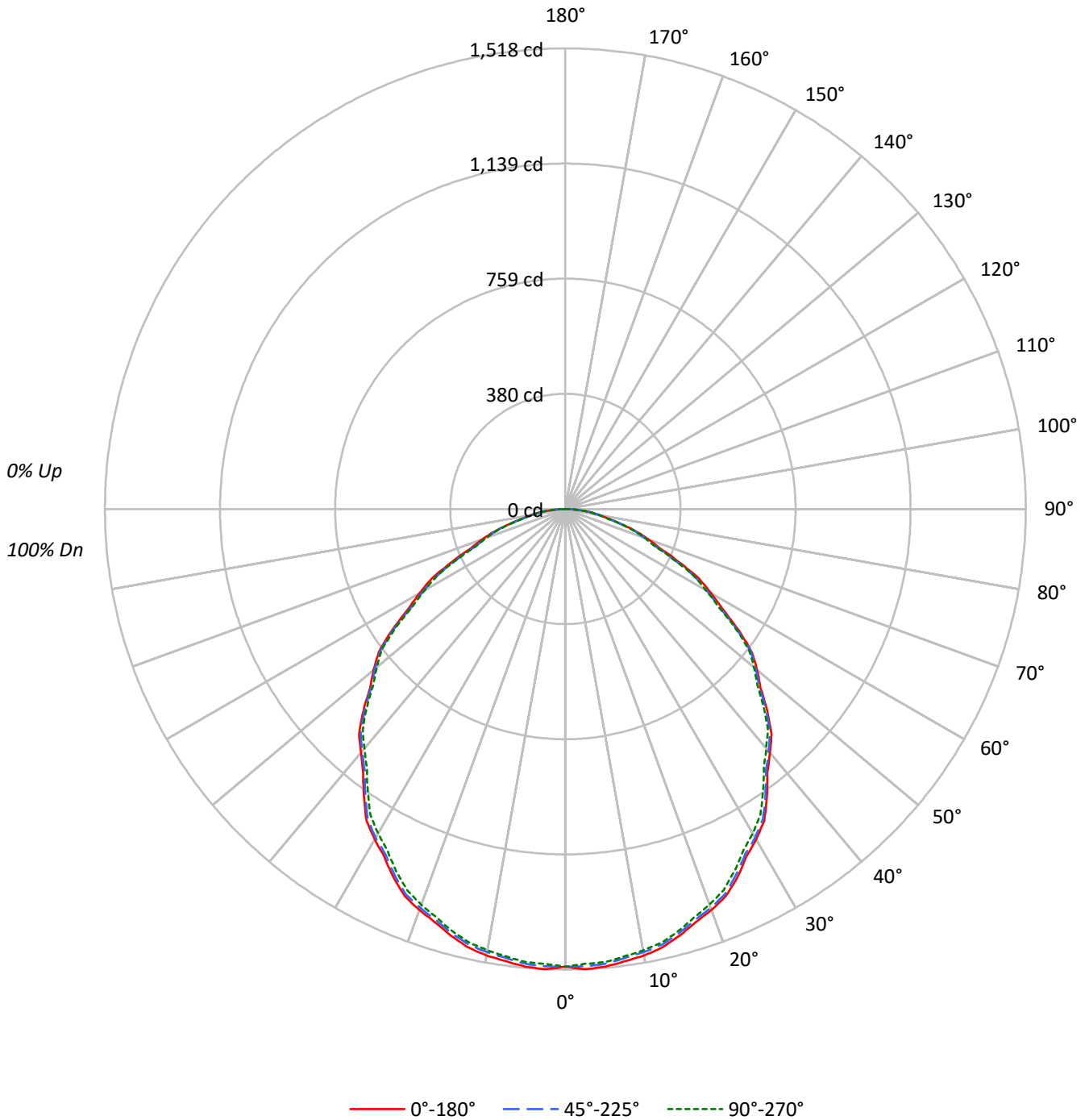
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	13920	13920	13920
5°	14022	13937	13888
10°	13998	13899	13837
15°	13906	13830	13754
20°	13813	13736	13632
25°	13649	13556	13420
30°	13397	13326	13157
35°	13046	12957	12794
40°	12629	12550	12406
45°	12285	12198	12077
50°	11843	11767	11654
55°	11231	11081	10996
60°	10223	9931	9881
65°	9007	8632	8601
70°	7777	7456	7456
75°	6695	6598	6506
80°	5903	5972	5834
85°	4615	5039	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.7
10°-20°	407.4	10.5
20°-30°	610.2	15.8
30°-40°	715.7	18.5
40°-50°	717.9	18.6
50°-60°	612.5	15.9
60°-70°	399.4	10.3
70°-80°	200.4	5.2
80°-90°	55.5	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°	1160.2	30.0
0°-40°	1875.9	48.6
0°-60°	3206.3	83.0
0°-90°	3861.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1500	1505	1500	1500	144
15°	1456	1442	1448	1443	1440	411
25°	1341	1325	1332	1320	1318	617
35°	1158	1147	1150	1137	1136	724
45°	942	935	935	926	926	725
55°	698	696	689	685	684	620
65°	413	405	395	393	394	412
75°	188	188	185	184	182	204
85°	44	48	48	48	48	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1518.3	1505.9	1508.7	1506.5	1500.3
5°	1514.0	1499.8	1504.8	1499.5	1499.5
7.5°	1503.7	1488.2	1493.1	1487.8	1487.6
10°	1494.2	1478.7	1483.6	1478.3	1477.0
12.5°	1480.4	1464.9	1470.9	1464.6	1464.3
15°	1455.9	1441.6	1447.9	1442.6	1440.0
17.5°	1428.1	1412.6	1420.2	1412.7	1411.7
20°	1406.9	1391.4	1399.0	1388.4	1388.4
22.5°	1381.5	1366.0	1374.7	1360.9	1360.9
25°	1340.8	1325.3	1331.6	1319.6	1318.3
27.5°	1292.4	1277.2	1283.7	1270.2	1269.9
30°	1257.5	1243.3	1250.9	1236.3	1235.0
32.5°	1219.4	1206.2	1211.8	1197.2	1195.9
35°	1158.3	1146.7	1150.4	1137.2	1135.9
37.5°	1094.1	1082.2	1086.4	1075.0	1074.5
40°	1048.6	1040.8	1042.0	1032.7	1030.1
42.5°	1006.3	997.5	998.6	989.3	988.8
45°	941.5	935.0	934.9	925.6	925.6
47.5°	872.7	867.8	866.4	858.7	858.4
50°	825.1	821.2	819.8	813.2	811.9
52.5°	775.4	773.6	769.1	763.5	763.2
55°	698.2	695.6	688.9	684.9	683.6
57.5°	614.3	609.2	601.6	595.9	596.9
60°	554.0	548.9	538.2	535.5	535.5
62.5°	495.9	489.7	478.9	475.3	477.4
65°	412.6	404.8	395.4	392.8	394.0
67.5°	336.9	329.9	319.7	319.7	318.7
70°	288.3	284.4	276.4	276.4	276.4
72.5°	244.9	243.1	237.2	237.2	236.2
75°	187.8	187.8	185.1	183.8	182.5
77.5°	140.7	141.2	139.9	138.5	136.2
80°	111.1	113.7	112.4	111.0	109.8
82.5°	83.6	86.2	85.9	83.6	83.3
85°	43.6	47.5	47.6	47.6	47.6
87.5°	11.6	15.8	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)