

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: P562324

Luminaire Tested: **SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562324  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 3819.4 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

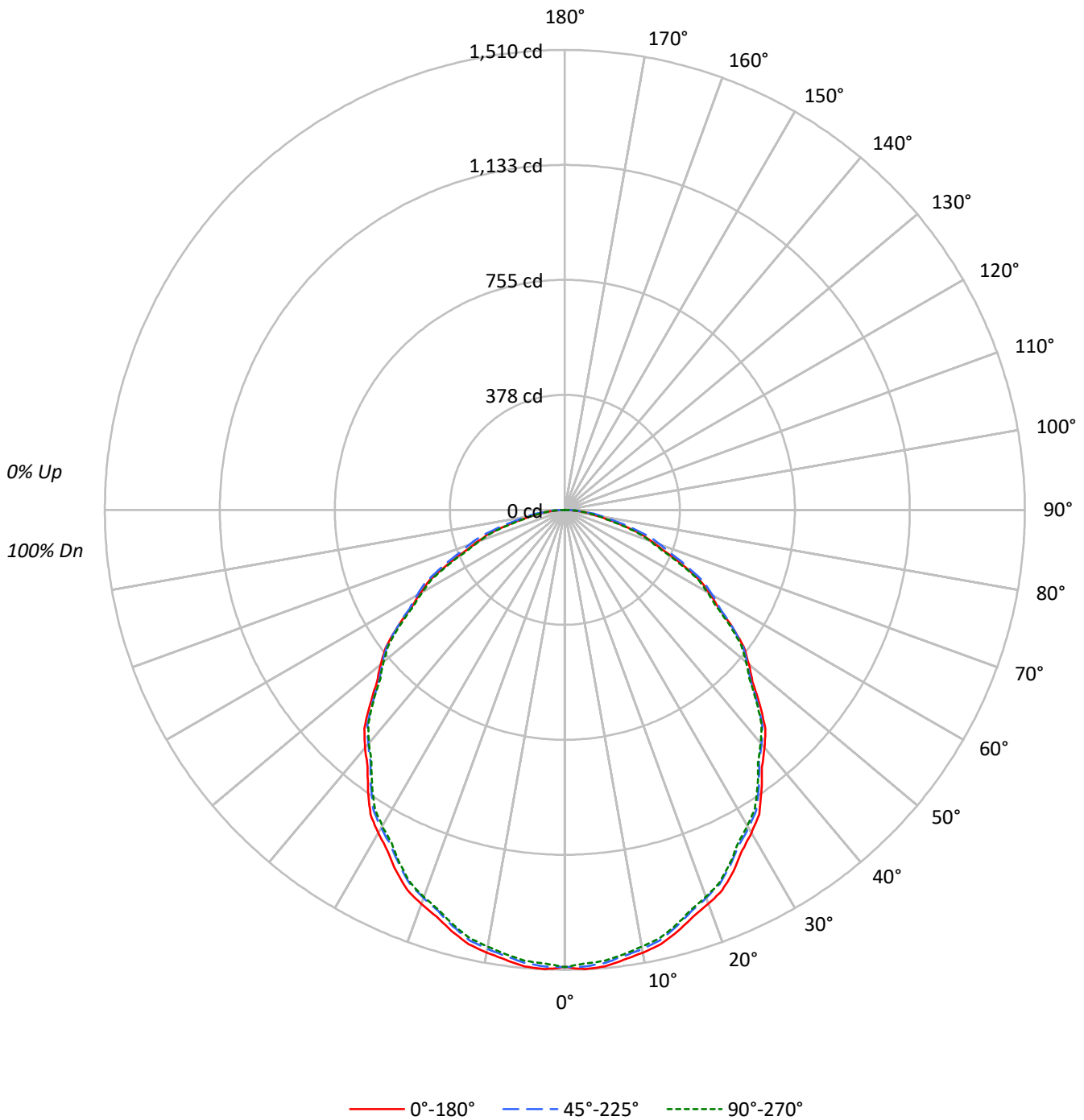
Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	13850	13850	13850
5°	13939	13829	13768
10°	13828	13716	13642
15°	13682	13530	13479
20°	13518	13311	13284
25°	13330	13087	13047
30°	13047	12850	12766
35°	12677	12499	12424
40°	12281	12091	12043
45°	11804	11649	11597
50°	11315	11220	11144
55°	10787	10787	10616
60°	10129	10324	9957
65°	9269	9730	9038
70°	8171	8956	7955
75°	6976	8014	6791
80°	5409	6748	5483
85°	3504	5176	4615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	3.7
10°-20°	399.1	10.4
20°-30°	592.0	15.5
30°-40°	692.7	18.1
40°-50°	689.6	18.1
50°-60°	595.5	15.6
60°-70°	428.6	11.2
70°-80°	224.8	5.9
80°-90°	55.7	1.5
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°	1132.4	29.6
0°-40°	1825.1	47.8
0°-60°	3110.2	81.4
0°-90°	3819.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3819.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1505	1488	1493	1489	1487	143
15°	1432	1414	1416	1414	1411	404
25°	1309	1287	1286	1278	1282	602
35°	1126	1110	1110	1099	1103	704
45°	905	897	893	890	889	698
55°	671	669	671	661	660	598
65°	425	438	446	428	414	421
75°	196	214	225	210	190	210
85°	33	43	49	46	44	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1509.6	1497.2	1501.2	1497.8	1490.6
5°	1505.1	1488.3	1493.2	1489.2	1486.6
7.5°	1489.8	1474.3	1477.9	1473.6	1472.1
10°	1476.0	1460.5	1464.1	1458.8	1456.2
12.5°	1460.2	1443.6	1447.2	1441.9	1440.3
15°	1432.4	1414.3	1416.5	1413.8	1411.2
17.5°	1400.1	1381.8	1382.1	1377.9	1377.4
20°	1376.8	1357.4	1355.7	1350.5	1353.0
22.5°	1351.4	1331.0	1329.2	1321.9	1325.5
25°	1309.4	1287.4	1285.6	1277.7	1281.6
27.5°	1260.7	1239.0	1239.0	1228.0	1232.1
30°	1224.7	1204.1	1206.2	1193.1	1198.3
32.5°	1186.7	1168.0	1169.2	1156.1	1161.3
35°	1125.5	1110.0	1109.7	1099.2	1103.1
37.5°	1063.1	1049.4	1047.2	1041.2	1042.2
40°	1019.7	1008.1	1003.9	999.9	999.9
42.5°	974.2	963.6	959.4	956.5	955.5
45°	904.7	896.9	892.8	890.1	888.8
47.5°	835.9	828.7	825.0	823.2	821.9
50°	788.3	783.1	781.7	777.7	776.4
52.5°	740.7	737.6	736.2	731.1	729.8
55°	670.6	669.3	670.6	661.3	660.0
57.5°	597.6	599.6	603.9	591.4	588.3
60°	548.9	554.1	559.5	544.8	539.6
62.5°	499.2	507.4	515.0	498.2	491.0
65°	424.6	437.5	445.7	428.2	414.0
67.5°	352.6	368.6	378.5	359.7	343.6
70°	302.9	321.0	332.0	313.0	294.9
72.5°	259.5	279.7	288.6	270.7	252.6
75°	195.7	213.9	224.8	209.9	190.5
77.5°	138.9	155.9	165.1	152.0	136.0
80°	101.8	119.9	127.0	116.1	103.2
82.5°	72.2	87.2	92.1	85.5	76.7
85°	33.1	43.4	48.9	46.2	43.6
87.5°	8.5	15.7	20.1	20.1	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)