

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: P523803

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523803
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3954.2 lumens
Efficiency: N/A
Efficacy: 93.3 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

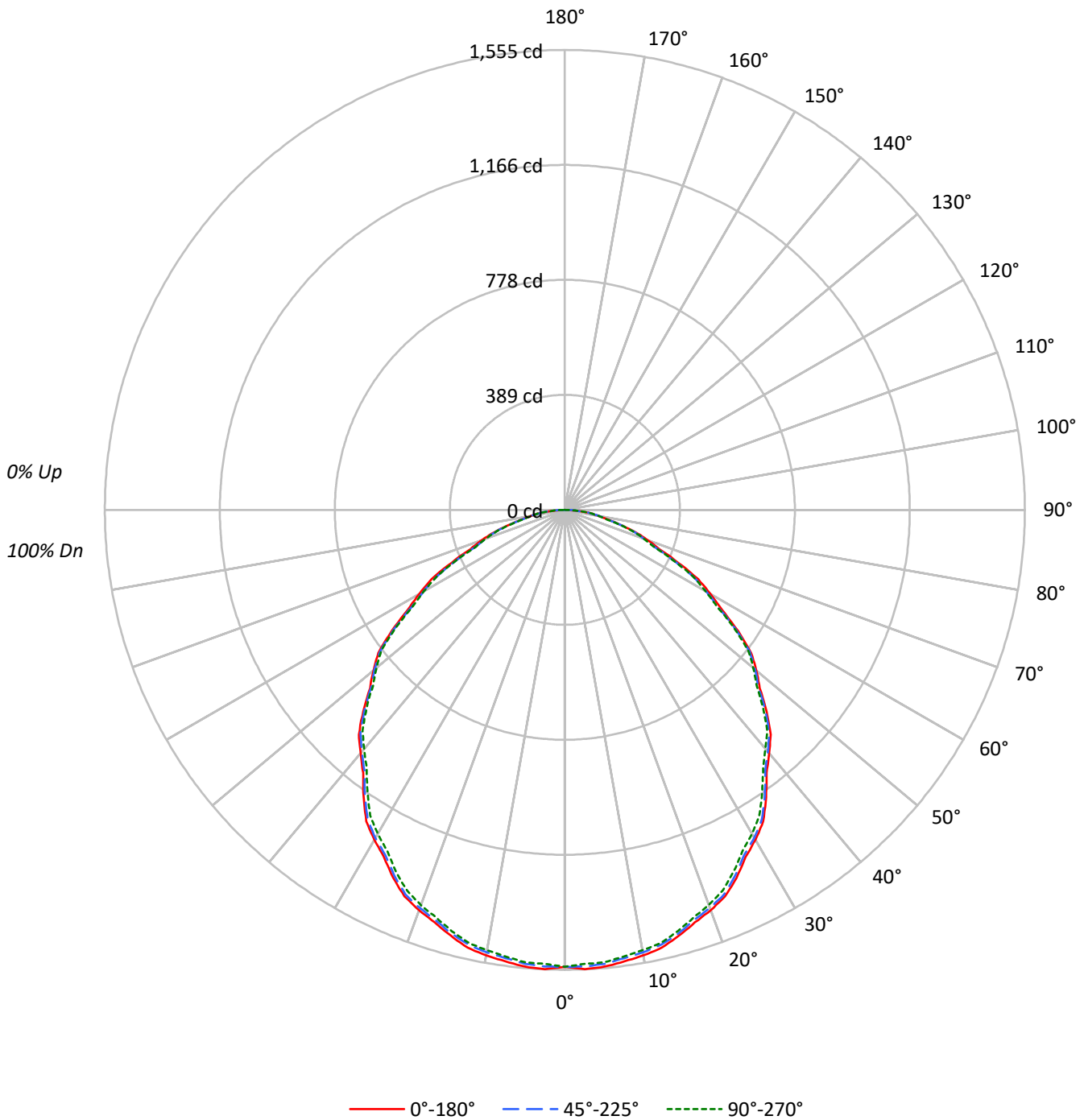
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14254	14254	14254
5°	14359	14271	14221
10°	14335	14233	14170
15°	14240	14162	14084
20°	14145	14066	13959
25°	13977	13880	13743
30°	13719	13646	13473
35°	13359	13268	13100
40°	12932	12851	12704
45°	12579	12491	12367
50°	12127	12050	11933
55°	11499	11348	11260
60°	10468	10169	10119
65°	9224	8839	8809
70°	7963	7634	7634
75°	6855	6759	6662
80°	6041	6115	5972
85°	4732	5155	5155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.7
10°-20°	417.1	10.5
20°-30°	624.8	15.8
30°-40°	732.9	18.5
40°-50°	735.2	18.6
50°-60°	627.2	15.9
60°-70°	409.0	10.3
70°-80°	205.2	5.2
80°-90°	56.8	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°	1188.0	30.0
0°-40°	1920.9	48.6
0°-60°	3283.2	83.0
0°-90°	3954.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1550	1536	1541	1536	1536	147
15°	1491	1476	1483	1477	1474	421
25°	1373	1357	1364	1351	1350	631
35°	1186	1174	1178	1164	1163	741
45°	964	958	957	948	948	742
55°	715	712	706	701	700	635
65°	422	414	405	402	404	422
75°	192	192	190	188	187	209
85°	45	49	49	49	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1554.7	1542.0	1545.0	1542.6	1536.3
5°	1550.4	1535.8	1540.9	1535.5	1535.5
7.5°	1539.8	1523.9	1529.0	1523.6	1523.3
10°	1530.1	1514.2	1519.2	1513.8	1512.5
12.5°	1516.0	1500.1	1506.2	1499.7	1499.5
15°	1490.8	1476.2	1482.7	1477.2	1474.5
17.5°	1462.4	1446.5	1454.2	1446.6	1445.6
20°	1440.7	1424.8	1432.6	1421.7	1421.7
22.5°	1414.7	1398.8	1407.7	1393.6	1393.6
25°	1373.0	1357.1	1363.5	1351.3	1350.0
27.5°	1323.4	1307.8	1314.5	1300.7	1300.4
30°	1287.7	1273.1	1280.9	1266.0	1264.7
32.5°	1248.7	1235.2	1240.8	1225.9	1224.6
35°	1186.1	1174.2	1178.0	1164.4	1163.1
37.5°	1120.3	1108.1	1112.5	1100.8	1100.3
40°	1073.7	1065.8	1067.0	1057.4	1054.8
42.5°	1030.4	1021.4	1022.6	1013.1	1012.5
45°	964.1	957.5	957.3	947.8	947.8
47.5°	893.7	888.6	887.2	879.3	879.0
50°	844.9	840.9	839.5	832.7	831.4
52.5°	794.0	792.2	787.5	781.8	781.5
55°	714.9	712.3	705.5	701.4	700.0
57.5°	629.1	623.8	616.1	610.2	611.2
60°	567.3	562.0	551.1	548.4	548.4
62.5°	507.8	501.4	490.4	486.7	488.8
65°	422.5	414.5	404.9	402.2	403.5
67.5°	345.0	337.9	327.4	327.4	326.3
70°	295.2	291.2	283.0	283.0	283.0
72.5°	250.8	248.9	242.9	242.9	241.8
75°	192.3	192.3	189.6	188.2	186.9
77.5°	144.1	144.6	143.3	141.8	139.5
80°	113.7	116.4	115.1	113.7	112.4
82.5°	85.6	88.2	88.0	85.6	85.3
85°	44.7	48.7	48.7	48.7	48.7
87.5°	11.9	16.2	17.3	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)