

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: P523794

Luminaire Tested: **SQ4-PP3-0U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523794
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-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 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: 3191.7 lumens
Efficiency: N/A
Efficacy: 100.4 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

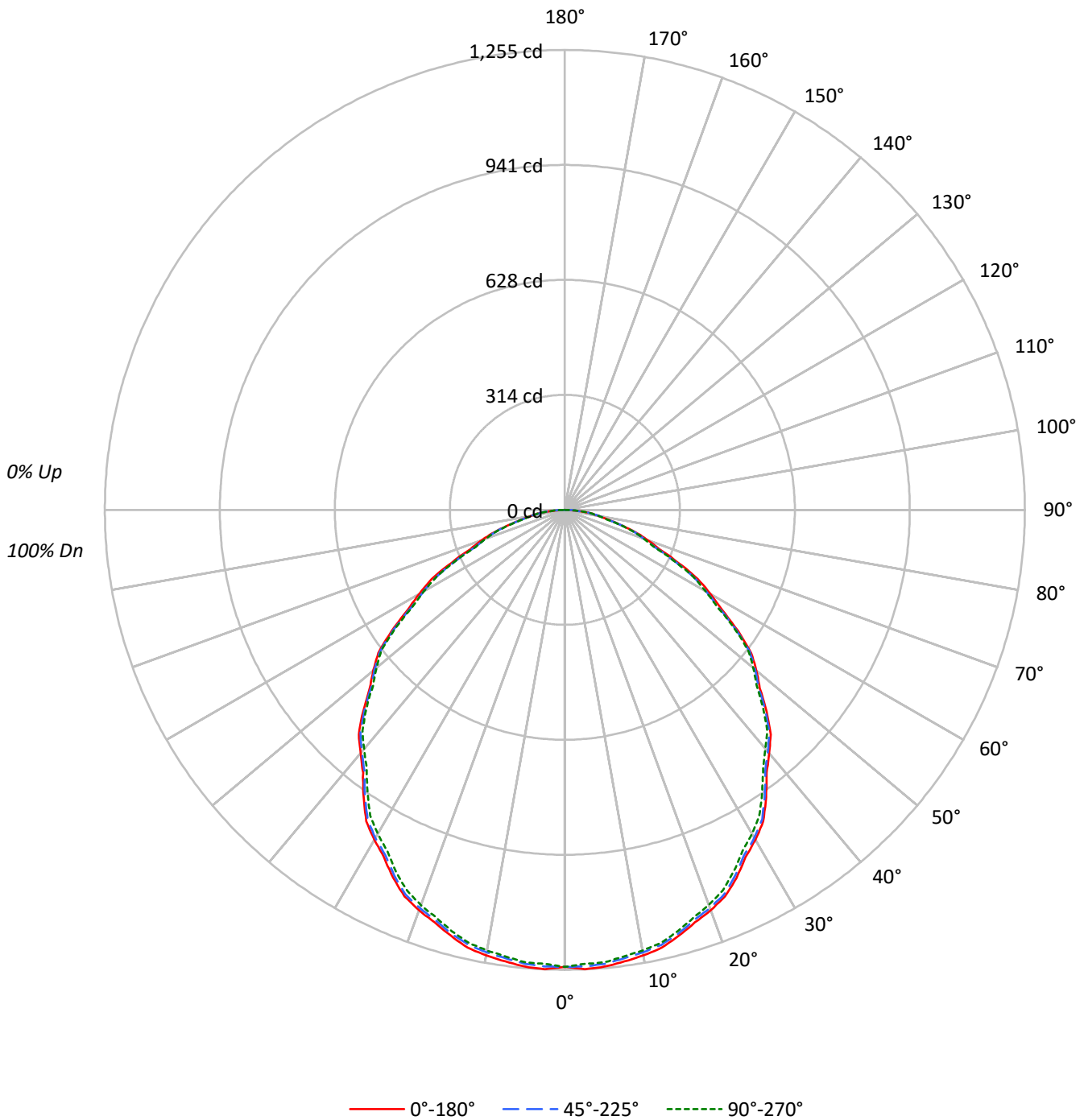
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11505	11505	11505
5°	11590	11518	11479
10°	11570	11489	11437
15°	11494	11431	11368
20°	11418	11353	11268
25°	11281	11204	11092
30°	11073	11015	10875
35°	10783	10709	10574
40°	10438	10372	10254
45°	10154	10082	9982
50°	9789	9726	9633
55°	9283	9159	9088
60°	8449	8208	8167
65°	7444	7134	7110
70°	6428	6161	6161
75°	5532	5454	5376
80°	4877	4936	4819
85°	3822	4160	4160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.7
10°-20°	336.7	10.5
20°-30°	504.3	15.8
30°-40°	591.5	18.5
40°-50°	593.4	18.6
50°-60°	506.2	15.9
60°-70°	330.1	10.3
70°-80°	165.6	5.2
80°-90°	45.8	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°	958.9	30.0
0°-40°	1550.5	48.6
0°-60°	2650.1	83.0
0°-90°	3191.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1240	1244	1239	1239	119
15°	1203	1192	1197	1192	1190	339
25°	1108	1095	1101	1091	1090	510
35°	957	948	951	940	939	598
45°	778	773	773	765	765	599
55°	577	575	569	566	565	513
65°	341	335	327	325	326	340
75°	155	155	153	152	151	168
85°	36	39	39	39	39	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.0	1247.0	1247.0	1247.0	1247.0
2.5°	1254.9	1244.6	1247.0	1245.2	1240.0
5°	1251.4	1239.6	1243.7	1239.4	1239.4
7.5°	1242.9	1230.0	1234.1	1229.8	1229.5
10°	1235.0	1222.2	1226.3	1221.9	1220.8
12.5°	1223.6	1210.8	1215.8	1210.5	1210.3
15°	1203.3	1191.6	1196.8	1192.3	1190.2
17.5°	1180.4	1167.5	1173.8	1167.7	1166.8
20°	1162.9	1150.0	1156.3	1147.6	1147.6
22.5°	1141.9	1129.1	1136.2	1124.8	1124.8
25°	1108.2	1095.4	1100.6	1090.7	1089.6
27.5°	1068.2	1055.6	1061.0	1049.9	1049.6
30°	1039.4	1027.6	1033.9	1021.9	1020.8
32.5°	1007.9	997.0	1001.6	989.5	988.4
35°	957.4	947.8	950.8	939.9	938.8
37.5°	904.3	894.5	897.9	888.5	888.1
40°	866.7	860.3	861.2	853.5	851.4
42.5°	831.7	824.4	825.4	817.7	817.3
45°	778.2	772.8	772.7	765.0	765.0
47.5°	721.3	717.3	716.1	709.7	709.5
50°	682.0	678.8	677.6	672.1	671.1
52.5°	640.9	639.4	635.6	631.0	630.8
55°	577.1	574.9	569.4	566.1	565.0
57.5°	507.8	503.5	497.3	492.5	493.3
60°	457.9	453.7	444.8	442.6	442.6
62.5°	409.8	404.7	395.9	392.8	394.5
65°	341.0	334.6	326.8	324.6	325.7
67.5°	278.5	272.7	264.3	264.2	263.4
70°	238.3	235.1	228.4	228.4	228.4
72.5°	202.4	200.9	196.1	196.1	195.2
75°	155.2	155.2	153.0	151.9	150.8
77.5°	116.3	116.7	115.6	114.5	112.6
80°	91.8	93.9	92.9	91.8	90.7
82.5°	69.1	71.2	71.0	69.1	68.9
85°	36.1	39.3	39.3	39.3	39.3
87.5°	9.6	13.0	14.0	14.0	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)