

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: P523790

Luminaire Tested: **SQ4-PP3-0U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523790
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

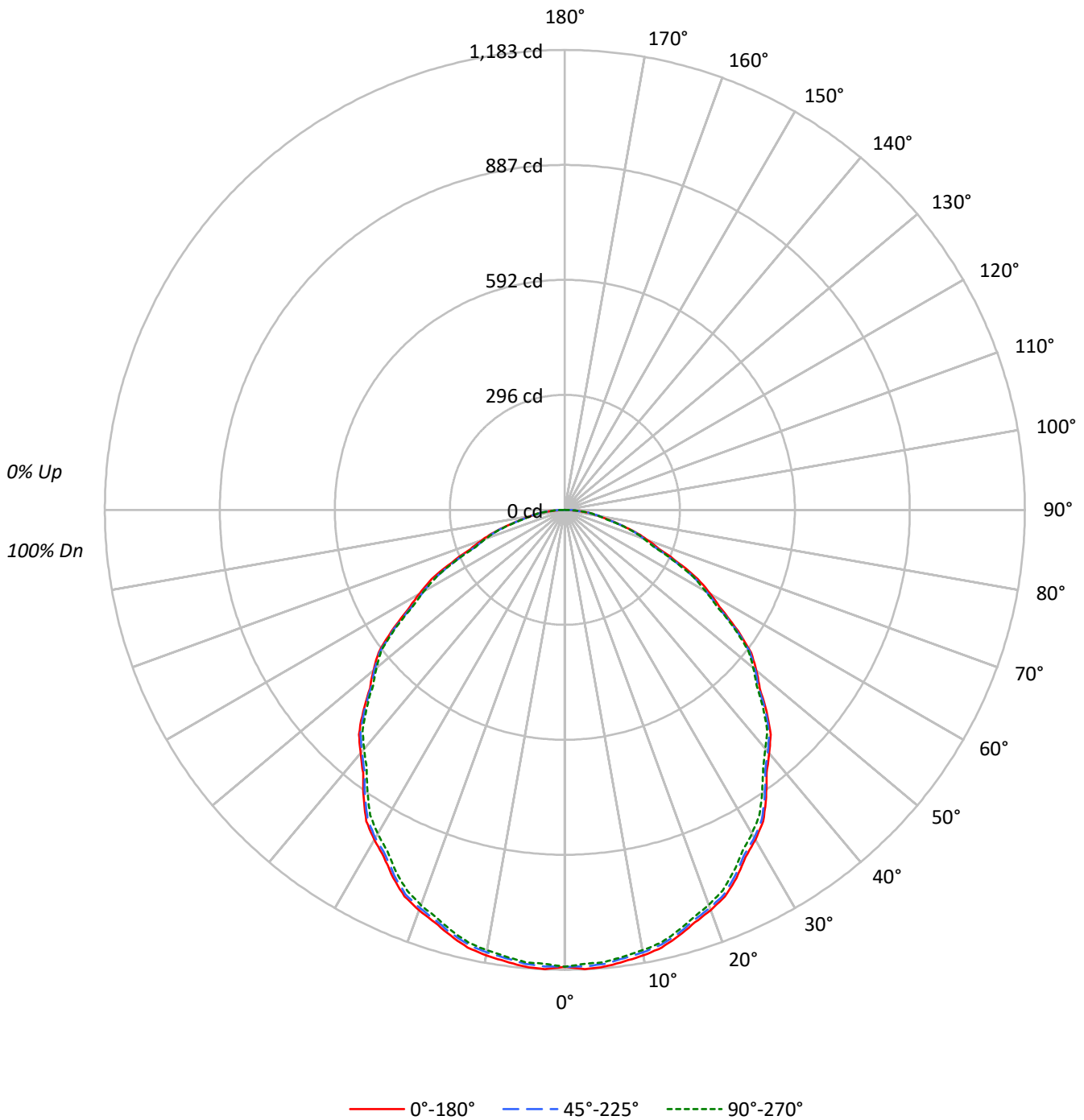
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10844	10844	10844
5°	10923	10856	10817
10°	10904	10827	10778
15°	10833	10773	10714
20°	10760	10700	10619
25°	10632	10559	10454
30°	10435	10381	10249
35°	10163	10093	9966
40°	9837	9776	9664
45°	9569	9501	9407
50°	9225	9166	9077
55°	8749	8631	8565
60°	7964	7735	7698
65°	7017	6724	6700
70°	6056	5808	5808
75°	5215	5140	5065
80°	4596	4654	4543
85°	3599	3927	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.7
10°-20°	317.3	10.5
20°-30°	475.3	15.8
30°-40°	557.5	18.5
40°-50°	559.2	18.6
50°-60°	477.1	15.9
60°-70°	311.1	10.3
70°-80°	156.1	5.2
80°-90°	43.2	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°	903.7	30.0
0°-40°	1461.2	48.6
0°-60°	2497.6	83.0
0°-90°	3008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1179	1168	1172	1168	1168	112
15°	1134	1123	1128	1124	1122	320
25°	1044	1032	1037	1028	1027	480
35°	902	893	896	886	885	564
45°	733	728	728	721	721	565
55°	544	542	537	534	532	483
65°	321	315	308	306	307	321
75°	146	146	144	143	142	159
85°	34	37	37	37	37	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1182.7	1173.0	1175.3	1173.5	1168.7
5°	1179.4	1168.3	1172.2	1168.0	1168.0
7.5°	1171.3	1159.3	1163.1	1159.0	1158.8
10°	1163.9	1151.8	1155.7	1151.5	1150.5
12.5°	1153.2	1141.1	1145.8	1140.8	1140.6
15°	1134.1	1123.0	1127.9	1123.7	1121.7
17.5°	1112.4	1100.3	1106.2	1100.5	1099.6
20°	1095.9	1083.9	1089.8	1081.5	1081.5
22.5°	1076.2	1064.1	1070.8	1060.1	1060.1
25°	1044.4	1032.4	1037.2	1027.9	1026.9
27.5°	1006.7	994.9	999.9	989.4	989.2
30°	979.5	968.5	974.4	963.0	962.0
32.5°	949.9	939.6	943.9	932.6	931.5
35°	902.3	893.2	896.1	885.8	884.8
37.5°	852.2	843.0	846.3	837.4	837.0
40°	816.8	810.8	811.7	804.4	802.4
42.5°	783.8	777.0	777.9	770.7	770.2
45°	733.4	728.3	728.2	721.0	721.0
47.5°	679.8	676.0	674.9	668.9	668.7
50°	642.7	639.7	638.6	633.4	632.4
52.5°	604.0	602.6	599.1	594.7	594.5
55°	543.9	541.8	536.6	533.5	532.5
57.5°	478.5	474.5	468.7	464.1	465.0
60°	431.6	427.5	419.2	417.2	417.2
62.5°	386.3	381.4	373.1	370.2	371.8
65°	321.4	315.3	308.0	305.9	306.9
67.5°	262.4	257.0	249.1	249.0	248.2
70°	224.5	221.5	215.3	215.3	215.3
72.5°	190.8	189.3	184.8	184.8	184.0
75°	146.3	146.3	144.2	143.1	142.1
77.5°	109.6	110.0	109.0	107.9	106.1
80°	86.5	88.5	87.6	86.5	85.5
82.5°	65.1	67.1	67.0	65.1	64.9
85°	34.0	37.0	37.1	37.1	37.1
87.5°	9.1	12.3	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)