

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: P519311

Luminaire Tested: **SQ4-WB-0U-100D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519311
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

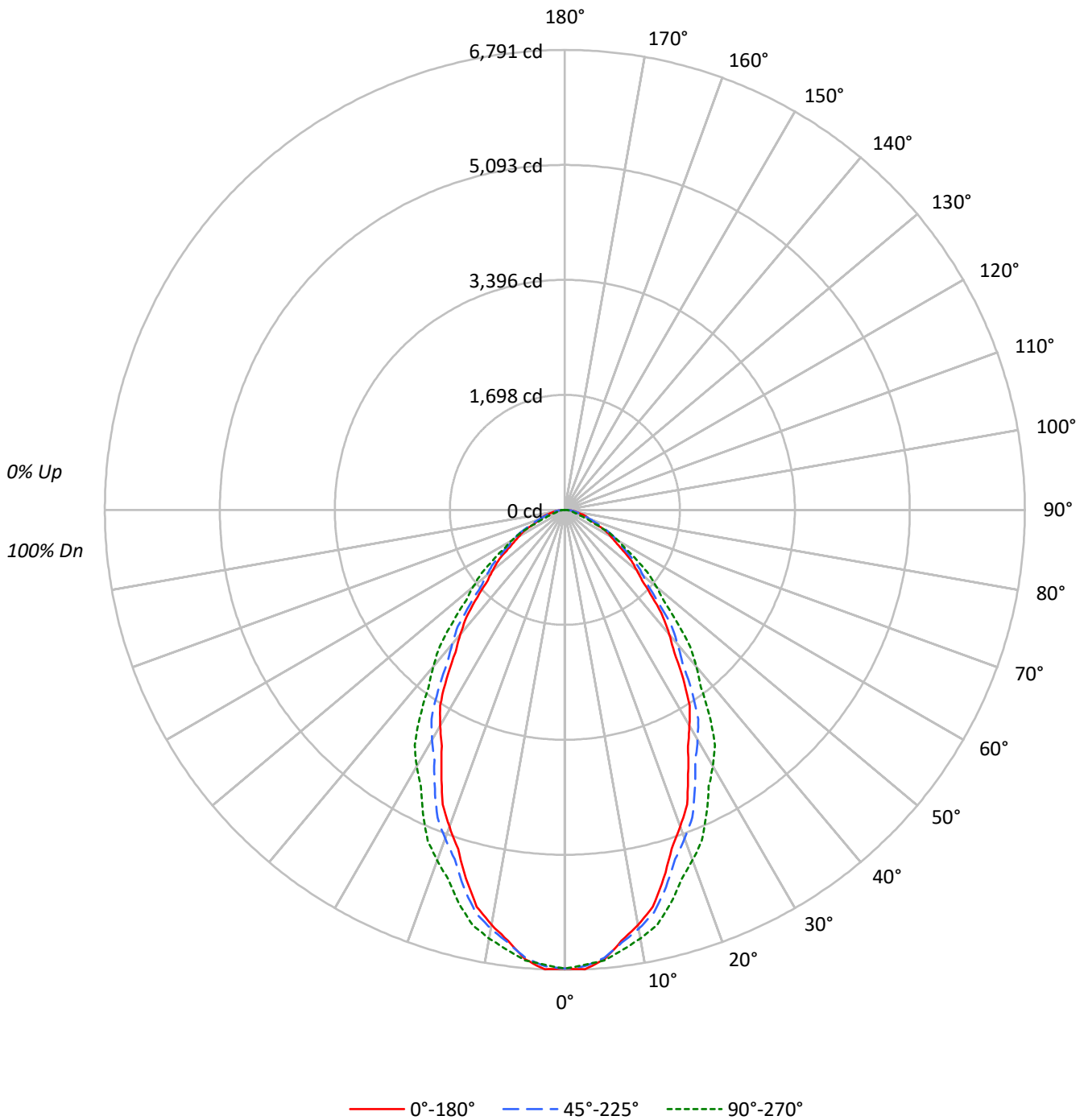
Lumens per Lamp: N/A
Luminaire Lumens: 9871.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20069
15°	17943	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15517
35°	11428	12253	14005
40°	9618	10382	12124
45°	7938	8623	10122
50°	6627	7225	8433
55°	5626	6200	6964
60°	4808	5375	5558
65°	3828	4520	3590
70°	3394	3528	2191
75°	3143	2861	1343
80°	2896	2632	1158
85°	2622	2414	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.4	6.3
10°-20°	1616.2	16.4
20°-30°	2093.4	21.2
30°-40°	2049.9	20.8
40°-50°	1569.1	15.9
50°-60°	1045.6	10.6
60°-70°	570.6	5.8
70°-80°	237.7	2.4
80°-90°	67.3	0.7
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°	4330.9	43.9
0°-40°	6380.8	64.6
0°-60°	8995.5	91.1
0°-90°	9871.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9871.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6774	6774	6774	6774	6774	
5°	6664	6597	6640	6656	6679	620
15°	5636	5615	5766	5923	6025	1574
25°	4307	4319	4542	4740	4949	1981
35°	3044	3058	3264	3483	3730	1892
45°	1825	1860	1983	2133	2327	1423
55°	1049	1093	1156	1200	1299	951
65°	526	570	621	543	493	547
75°	264	264	241	165	113	282
85°	74	74	68	44	27	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6774.1	6774.1	6774.1	6774.1	6774.1
2.5°	6790.8	6730.3	6745.6	6745.2	6726.6
5°	6664.2	6597.3	6640.4	6655.8	6679.0
7.5°	6416.9	6366.3	6444.8	6502.9	6550.0
10°	6224.2	6180.7	6280.7	6365.3	6426.4
12.5°	6000.7	5964.1	6088.1	6201.7	6281.3
15°	5635.7	5615.4	5766.5	5923.4	6025.1
17.5°	5245.1	5235.3	5408.6	5591.7	5721.9
20°	4978.8	4975.9	5166.1	5356.8	5507.9
22.5°	4710.1	4716.5	4916.4	5114.7	5286.7
25°	4307.0	4318.7	4541.9	4739.8	4949.1
27.5°	3934.3	3939.5	4170.3	4379.3	4602.5
30°	3679.9	3694.4	3920.6	4136.9	4369.5
32.5°	3425.4	3442.3	3663.8	3887.4	4124.5
35°	3043.8	3058.3	3263.7	3483.3	3730.4
37.5°	2650.2	2670.0	2852.3	3060.0	3303.0
40°	2395.8	2424.8	2586.0	2781.7	3020.0
42.5°	2150.8	2186.9	2336.3	2521.9	2737.0
45°	1825.1	1859.9	1982.6	2132.7	2327.4
47.5°	1544.5	1584.6	1678.8	1808.0	1974.3
50°	1385.1	1422.9	1510.0	1605.7	1762.6
52.5°	1244.8	1282.6	1360.2	1434.0	1567.7
55°	1049.3	1092.9	1156.3	1200.1	1298.9
57.5°	888.8	930.6	980.9	1000.7	1060.6
60°	781.7	828.2	873.9	871.6	903.6
62.5°	684.3	723.8	769.3	737.8	739.5
65°	526.1	569.7	621.2	542.8	493.4
67.5°	425.1	434.4	487.5	378.5	319.8
70°	377.5	377.5	392.4	293.1	243.7
72.5°	332.3	332.3	318.6	238.4	186.7
75°	264.5	264.5	240.8	165.3	113.0
77.5°	203.9	201.6	184.3	123.3	82.0
80°	163.5	163.5	148.6	97.4	65.4
82.5°	127.8	127.8	115.3	76.1	48.7
85°	74.3	74.3	68.4	44.2	26.8
87.5°	26.2	26.2	23.8	14.2	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)