

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: P519324

Luminaire Tested: **SQ4-WB-0U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519324
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

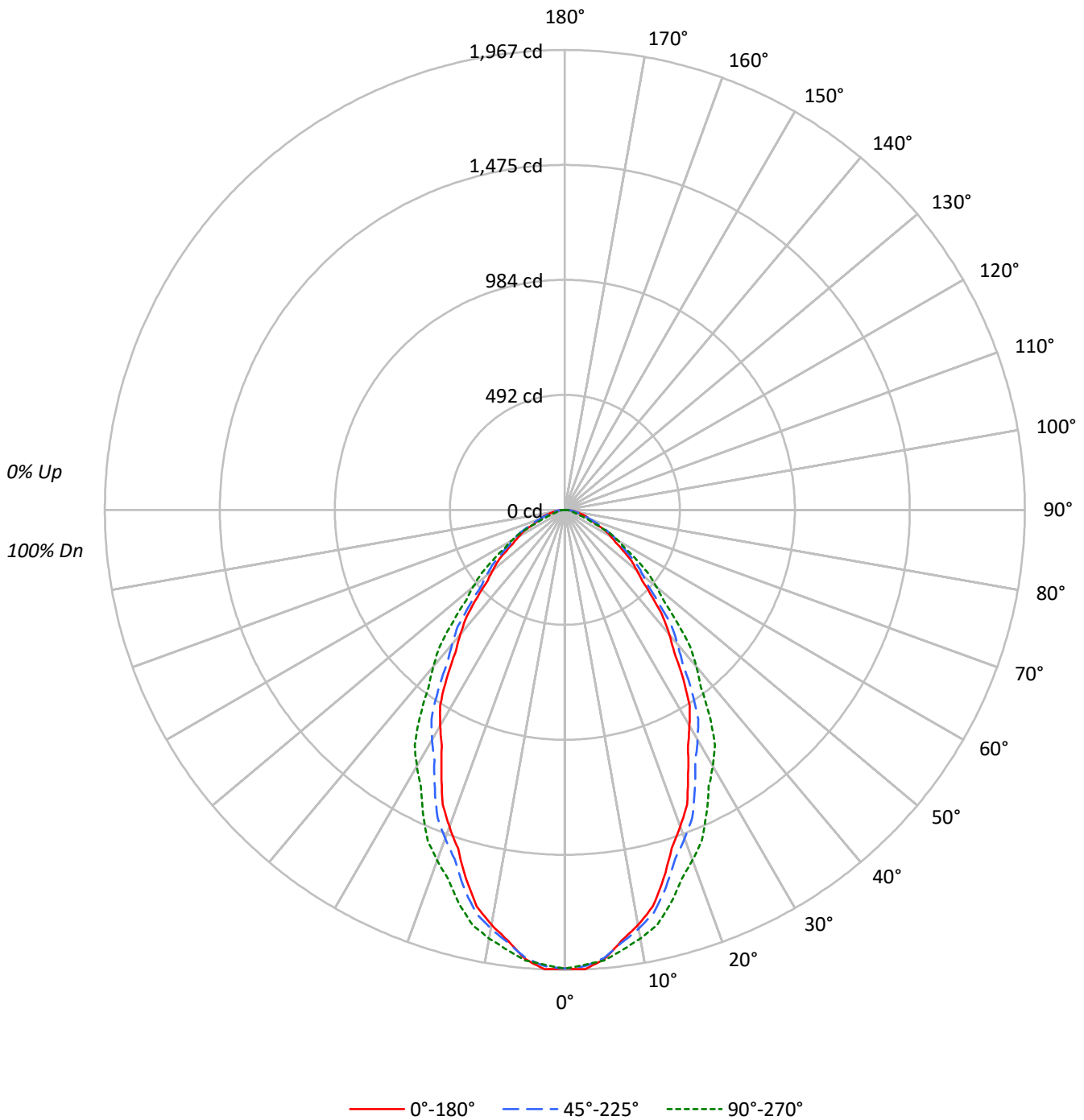
Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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	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°	18102	18102	18102
5°	17876	17813	17916
10°	16889	17042	17438
15°	15591	15953	16669
20°	14158	14691	15663
25°	12700	13392	14592
30°	11355	12097	13482
35°	9930	10647	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3927	3120
70°	2948	3064	1904
75°	2731	2485	1166
80°	2513	2285	1004
85°	2276	2096	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	6.3
10°-20°	468.1	16.4
20°-30°	606.3	21.2
30°-40°	593.7	20.8
40°-50°	454.5	15.9
50°-60°	302.8	10.6
60°-70°	165.2	5.8
70°-80°	68.8	2.4
80°-90°	19.5	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°	1254.4	43.9
0°-40°	1848.1	64.6
0°-60°	2605.4	91.1
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1930	1911	1923	1928	1934	180
15°	1632	1626	1670	1716	1745	456
25°	1248	1251	1316	1373	1433	574
35°	882	886	945	1009	1080	548
45°	529	539	574	618	674	412
55°	304	316	335	348	376	276
65°	152	165	180	157	143	158
75°	77	77	70	48	33	82
85°	22	22	20	13	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1966.8	1949.3	1953.7	1953.6	1948.2
5°	1930.1	1910.8	1923.3	1927.7	1934.5
7.5°	1858.5	1843.9	1866.6	1883.5	1897.1
10°	1802.7	1790.1	1819.1	1843.6	1861.3
12.5°	1738.0	1727.4	1763.3	1796.2	1819.3
15°	1632.3	1626.4	1670.2	1715.6	1745.1
17.5°	1519.2	1516.3	1566.5	1619.5	1657.2
20°	1442.0	1441.2	1496.3	1551.5	1595.3
22.5°	1364.2	1366.0	1423.9	1481.4	1531.2
25°	1247.5	1250.8	1315.5	1372.8	1433.4
27.5°	1139.5	1141.0	1207.8	1268.4	1333.0
30°	1065.8	1070.0	1135.5	1198.2	1265.5
32.5°	992.1	997.0	1061.2	1125.9	1194.6
35°	881.6	885.8	945.3	1008.9	1080.4
37.5°	767.6	773.3	826.1	886.3	956.6
40°	693.9	702.3	749.0	805.7	874.7
42.5°	623.0	633.4	676.7	730.4	792.7
45°	528.6	538.7	574.2	617.7	674.1
47.5°	447.3	458.9	486.2	523.7	571.8
50°	401.2	412.1	437.3	465.1	510.5
52.5°	360.5	371.5	394.0	415.3	454.0
55°	303.9	316.5	334.9	347.6	376.2
57.5°	257.4	269.5	284.1	289.8	307.2
60°	226.4	239.9	253.1	252.5	261.7
62.5°	198.2	209.6	222.8	213.7	214.2
65°	152.4	165.0	179.9	157.2	142.9
67.5°	123.1	125.8	141.2	109.6	92.6
70°	109.3	109.3	113.6	84.9	70.6
72.5°	96.2	96.2	92.3	69.0	54.1
75°	76.6	76.6	69.7	47.9	32.7
77.5°	59.1	58.4	53.4	35.7	23.8
80°	47.3	47.3	43.0	28.2	18.9
82.5°	37.0	37.0	33.4	22.0	14.1
85°	21.5	21.5	19.8	12.8	7.7
87.5°	7.6	7.6	6.9	4.1	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)