

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: P519325

Luminaire Tested: **SQ4-WB-0U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519325
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-6
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

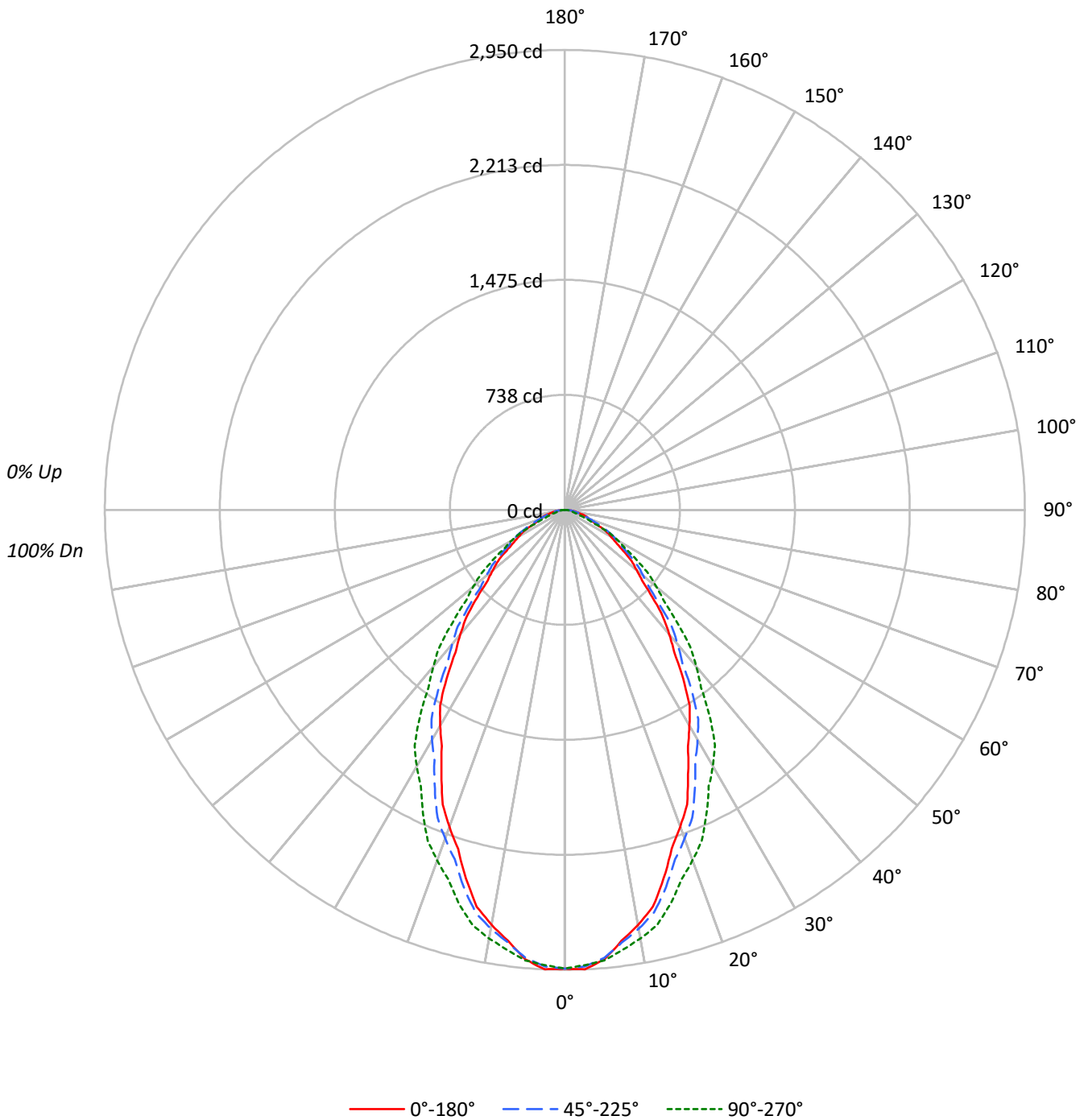
Lumens per Lamp: N/A
Luminaire Lumens: 4288.5 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8795
50°	5759	6277	7328
55°	4888	5386	6051
60°	4178	4671	4830
65°	3327	3928	3120
70°	2949	3066	1904
75°	2731	2486	1167
80°	2515	2288	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	6.3
10°-20°	702.1	16.4
20°-30°	909.5	21.2
30°-40°	890.6	20.8
40°-50°	681.7	15.9
50°-60°	454.2	10.6
60°-70°	247.9	5.8
70°-80°	103.3	2.4
80°-90°	29.2	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°	1881.5	43.9
0°-40°	2772.1	64.6
0°-60°	3908.1	91.1
0°-90°	4288.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2895	2866	2885	2892	2902	269
15°	2448	2440	2505	2573	2618	684
25°	1871	1876	1973	2059	2150	861
35°	1322	1329	1418	1513	1621	822
45°	793	808	861	926	1011	618
55°	456	475	502	521	564	413
65°	229	248	270	236	214	238
75°	115	115	105	72	49	123
85°	32	32	30	19	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2950.2	2924.0	2930.6	2930.4	2922.3
5°	2895.2	2866.2	2884.9	2891.6	2901.7
7.5°	2787.8	2765.8	2799.9	2825.2	2845.6
10°	2704.1	2685.2	2728.6	2765.4	2791.9
12.5°	2607.0	2591.1	2645.0	2694.3	2728.9
15°	2448.4	2439.6	2505.2	2573.4	2617.6
17.5°	2278.7	2274.4	2349.8	2429.3	2485.9
20°	2163.0	2161.8	2244.4	2327.2	2392.9
22.5°	2046.3	2049.1	2135.9	2222.1	2296.8
25°	1871.2	1876.2	1973.2	2059.2	2150.1
27.5°	1709.2	1711.5	1811.8	1902.6	1999.5
30°	1598.7	1605.0	1703.3	1797.3	1898.3
32.5°	1488.2	1495.5	1591.7	1688.9	1791.9
35°	1322.3	1328.7	1417.9	1513.3	1620.7
37.5°	1151.4	1160.0	1239.2	1329.4	1435.0
40°	1040.8	1053.5	1123.5	1208.5	1312.0
42.5°	934.4	950.1	1015.0	1095.6	1189.1
45°	792.9	808.0	861.3	926.5	1011.1
47.5°	671.0	688.4	729.4	785.5	857.7
50°	601.8	618.2	656.0	697.6	765.8
52.5°	540.8	557.2	590.9	623.0	681.1
55°	455.8	474.8	502.3	521.4	564.3
57.5°	386.1	404.3	426.1	434.7	460.8
60°	339.6	359.8	379.7	378.7	392.6
62.5°	297.3	314.4	334.2	320.5	321.3
65°	228.6	247.5	269.9	235.8	214.4
67.5°	184.7	188.7	211.8	164.5	139.0
70°	164.0	164.0	170.5	127.4	105.9
72.5°	144.4	144.4	138.4	103.6	81.1
75°	114.9	114.9	104.6	71.8	49.1
77.5°	88.6	87.6	80.1	53.6	35.6
80°	71.0	71.0	64.6	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.4	11.4	10.3	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)