

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: P519290

Luminaire Tested: **SQ4-WB-0U-075D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519290
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-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

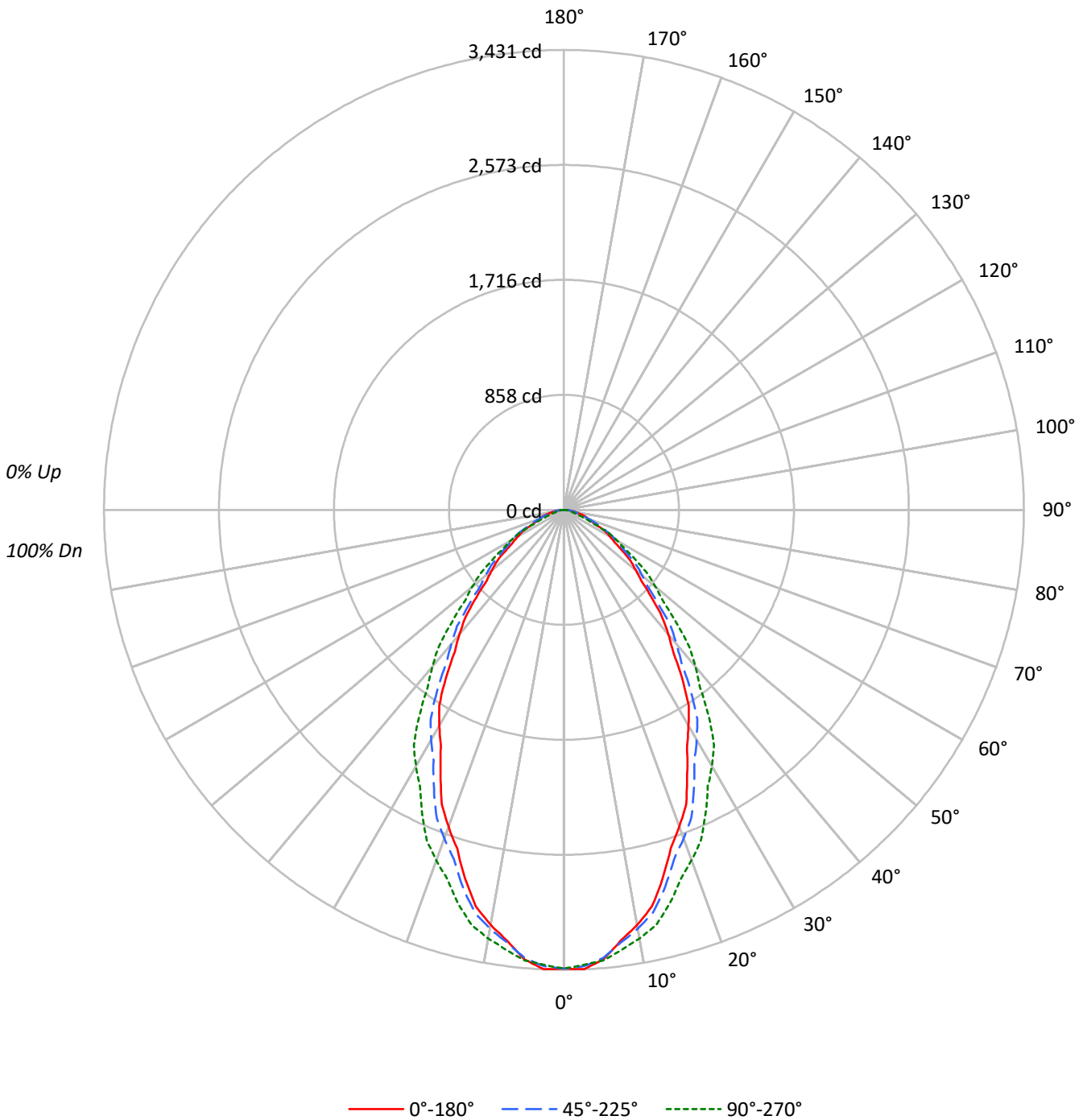
Lumens per Lamp: N/A
Luminaire Lumens: 4986.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15207
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8660	9285	10613
40°	7288	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3643	4073	4212
65°	2901	3425	2721
70°	2572	2673	1660
75°	2381	2167	1018
80°	2194	1995	877
85°	1985	1826	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	6.3
10°-20°	816.5	16.4
20°-30°	1057.6	21.2
30°-40°	1035.6	20.8
40°-50°	792.7	15.9
50°-60°	528.2	10.6
60°-70°	288.2	5.8
70°-80°	120.1	2.4
80°-90°	34.0	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°	2187.9	43.9
0°-40°	3223.5	64.6
0°-60°	4544.5	91.1
0°-90°	4986.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3422	3422	3422	3422	3422	
5°	3367	3333	3355	3362	3374	313
15°	2847	2837	2913	2992	3044	795
25°	2176	2182	2294	2394	2500	1001
35°	1538	1545	1649	1760	1885	956
45°	922	940	1002	1077	1176	719
55°	530	552	584	606	656	481
65°	266	288	314	274	249	276
75°	134	134	122	84	57	143
85°	38	38	34	22	14	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3430.6	3400.1	3407.8	3407.6	3398.2
5°	3366.7	3332.9	3354.7	3362.4	3374.2
7.5°	3241.7	3216.2	3255.8	3285.2	3309.0
10°	3144.4	3122.4	3173.0	3215.7	3246.5
12.5°	3031.5	3013.0	3075.7	3133.0	3173.3
15°	2847.1	2836.8	2913.2	2992.4	3043.8
17.5°	2649.8	2644.8	2732.4	2824.9	2890.7
20°	2515.2	2513.8	2609.8	2706.2	2782.5
22.5°	2379.5	2382.7	2483.7	2583.9	2670.8
25°	2175.9	2181.7	2294.5	2394.5	2500.2
27.5°	1987.6	1990.2	2106.8	2212.4	2325.1
30°	1859.0	1866.4	1980.7	2089.9	2207.4
32.5°	1730.5	1739.0	1850.9	1963.9	2083.7
35°	1537.7	1545.0	1648.8	1759.8	1884.6
37.5°	1338.9	1348.8	1441.0	1545.9	1668.6
40°	1210.3	1225.0	1306.4	1405.3	1525.7
42.5°	1086.6	1104.8	1180.3	1274.1	1382.7
45°	922.0	939.6	1001.6	1077.4	1175.8
47.5°	780.3	800.5	848.1	913.4	997.4
50°	699.8	718.9	762.8	811.2	890.5
52.5°	628.9	648.0	687.1	724.4	792.0
55°	530.1	552.1	584.1	606.3	656.2
57.5°	449.0	470.1	495.5	505.5	535.8
60°	394.9	418.4	441.5	440.3	456.5
62.5°	345.7	365.6	388.6	372.7	373.6
65°	265.8	287.8	313.8	274.2	249.3
67.5°	214.7	219.4	246.3	191.2	161.6
70°	190.7	190.7	198.2	148.1	123.1
72.5°	167.9	167.9	161.0	120.4	94.3
75°	133.6	133.6	121.6	83.5	57.1
77.5°	103.0	101.8	93.1	62.3	41.4
80°	82.6	82.6	75.1	49.2	33.0
82.5°	64.6	64.6	58.3	38.4	24.6
85°	37.5	37.5	34.5	22.3	13.5
87.5°	13.2	13.2	12.0	7.2	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)