

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: P519309

Luminaire Tested: **SQ4-WB-0U-100D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519309
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

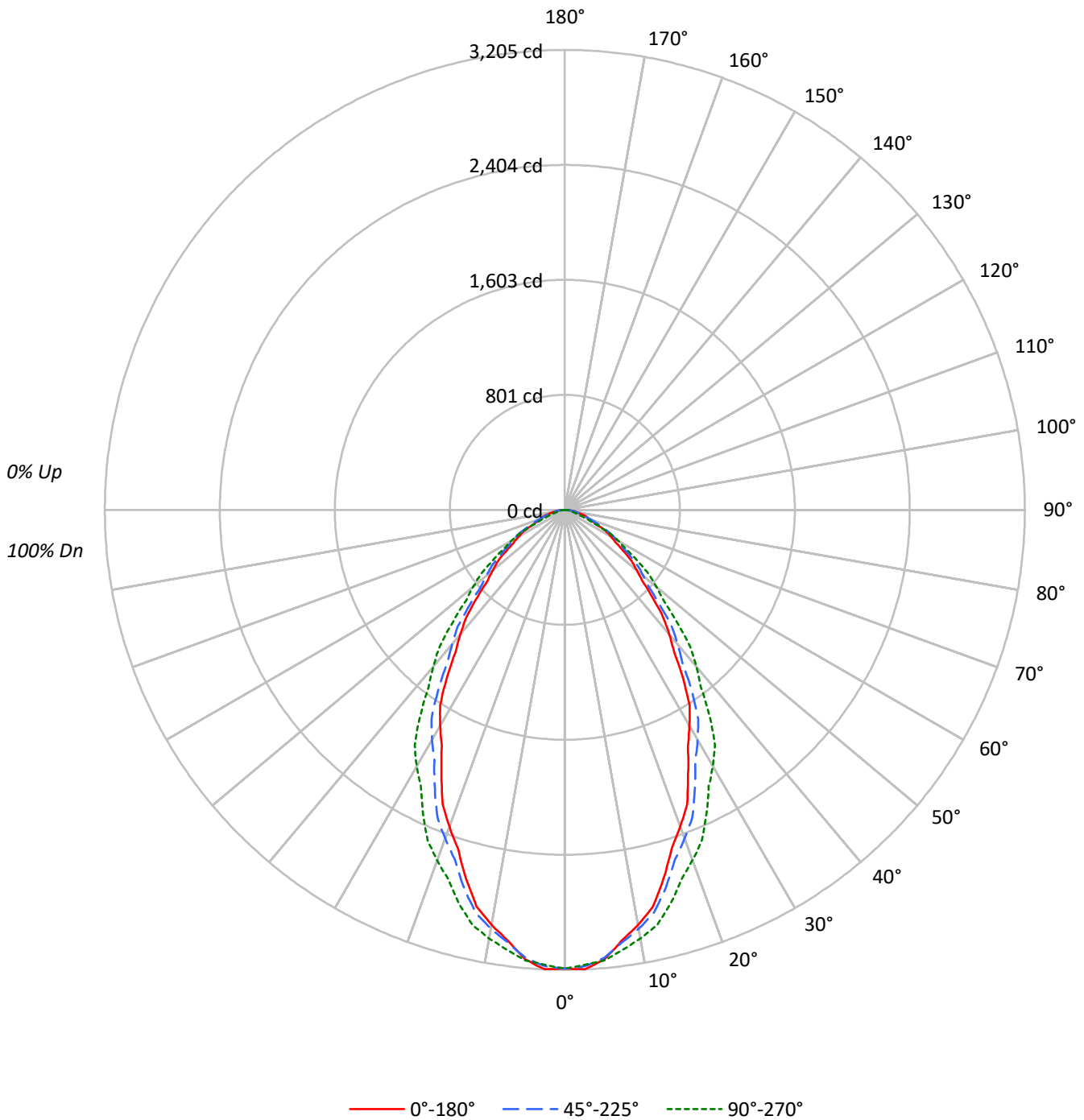
Lumens per Lamp: N/A
Luminaire Lumens: 4658.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	19664	19664	19664
5°	19419	19350	19462
10°	18347	18513	18943
15°	16937	17330	18107
20°	15380	15959	17014
25°	13795	14547	15852
30°	12335	13141	14646
35°	10786	11566	13219
40°	9079	9800	11444
45°	7492	8139	9554
50°	6255	6819	7960
55°	5310	5852	6574
60°	4538	5073	5247
65°	3614	4267	3390
70°	3205	3331	2068
75°	2968	2700	1267
80°	2735	2483	1095
85°	2477	2279	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	6.3
10°-20°	762.7	16.4
20°-30°	988.0	21.2
30°-40°	967.5	20.8
40°-50°	740.5	15.9
50°-60°	493.5	10.6
60°-70°	269.3	5.8
70°-80°	112.2	2.4
80°-90°	31.8	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°	2043.9	43.9
0°-40°	3011.4	64.6
0°-60°	4245.4	91.1
0°-90°	4658.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3197	3197	3197	3197	3197	
5°	3145	3114	3134	3141	3152	293
15°	2660	2650	2722	2796	2844	743
25°	2033	2038	2144	2237	2336	935
35°	1436	1443	1540	1644	1760	893
45°	861	878	936	1006	1098	672
55°	495	516	546	566	613	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3197.0	3197.0	3197.0	3197.0	3197.0
2.5°	3204.9	3176.4	3183.6	3183.4	3174.6
5°	3145.1	3113.6	3133.9	3141.2	3152.1
7.5°	3028.4	3004.5	3041.6	3069.0	3091.3
10°	2937.5	2916.9	2964.2	3004.1	3032.9
12.5°	2832.0	2814.7	2873.3	2926.9	2964.4
15°	2659.8	2650.1	2721.5	2795.5	2843.5
17.5°	2475.4	2470.8	2552.6	2639.0	2700.4
20°	2349.7	2348.4	2438.1	2528.1	2599.4
22.5°	2222.9	2225.9	2320.3	2413.9	2495.1
25°	2032.7	2038.2	2143.5	2236.9	2335.7
27.5°	1856.8	1859.2	1968.2	2066.8	2172.1
30°	1736.7	1743.6	1850.3	1952.4	2062.1
32.5°	1616.6	1624.6	1729.1	1834.6	1946.6
35°	1436.5	1443.3	1540.3	1644.0	1760.5
37.5°	1250.8	1260.1	1346.1	1444.1	1558.8
40°	1130.7	1144.4	1220.5	1312.8	1425.3
42.5°	1015.1	1032.1	1102.6	1190.2	1291.7
45°	861.3	877.8	935.7	1006.5	1098.4
47.5°	728.9	747.8	792.3	853.3	931.8
50°	653.7	671.5	712.6	757.8	831.9
52.5°	587.5	605.3	641.9	676.8	739.8
55°	495.2	515.8	545.7	566.4	613.0
57.5°	419.4	439.2	462.9	472.3	500.5
60°	368.9	390.9	412.4	411.4	426.5
62.5°	322.9	341.6	363.1	348.2	349.0
65°	248.3	268.9	293.2	256.2	232.9
67.5°	200.6	205.0	230.1	178.7	150.9
70°	178.2	178.2	185.2	138.3	115.0
72.5°	156.8	156.8	150.4	112.5	88.1
75°	124.9	124.9	113.6	78.0	53.3
77.5°	96.2	95.1	87.0	58.2	38.7
80°	77.2	77.2	70.1	46.0	30.9
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.1	35.1	32.3	20.9	12.6
87.5°	12.3	12.3	11.2	6.7	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)