

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

Brand: CORELITE

Report Number: P521887

Luminaire Tested: SQ4-WB-0U-100D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521887
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-100D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.2 lumens
Efficiency: N/A
Efficacy: 79.0 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

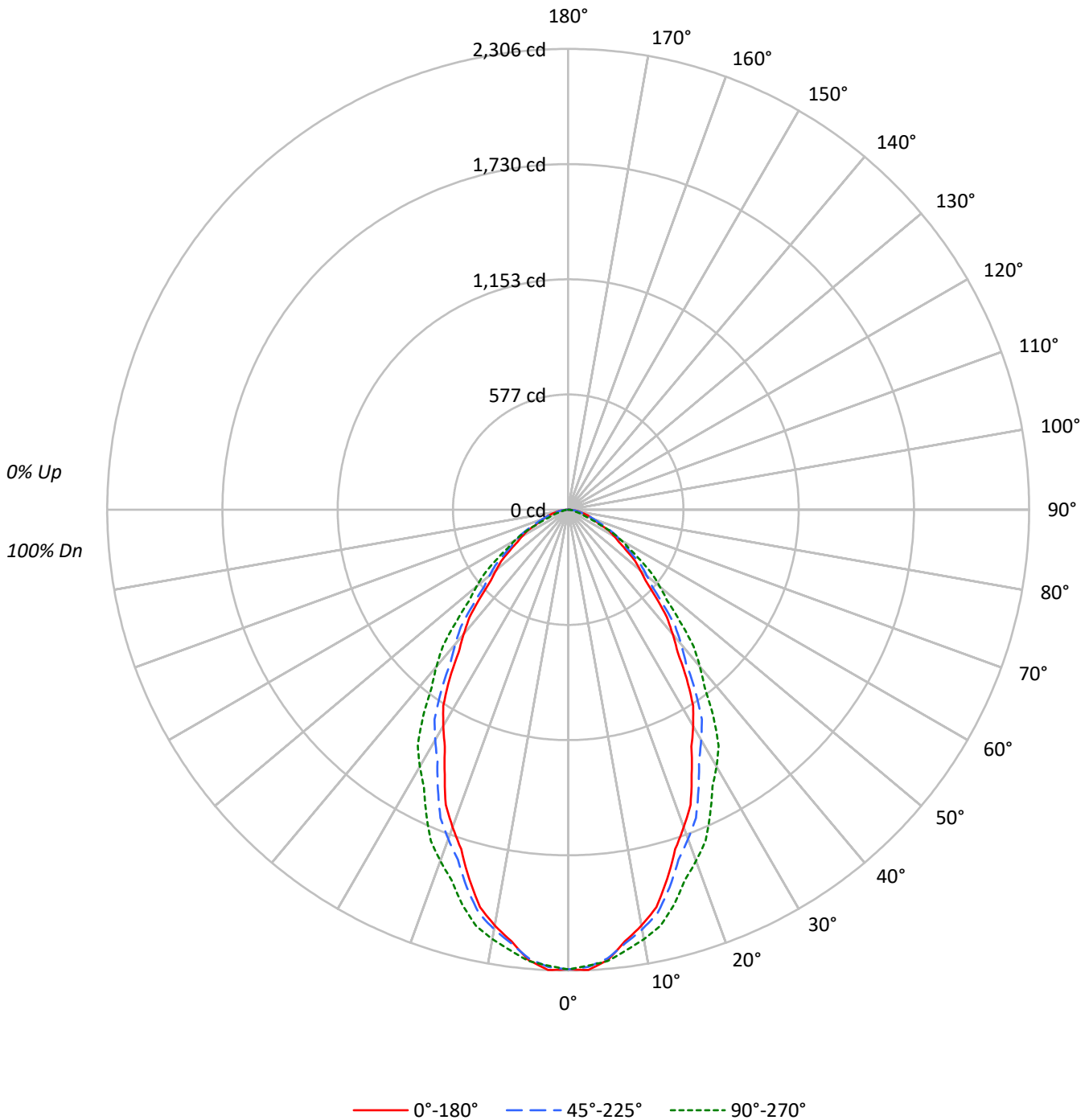
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21218	21218	21218
5°	20954	20879	21000
10°	19797	19977	20439
15°	18275	18699	19538
20°	16596	17220	18359
25°	14885	15697	17104
30°	13309	14180	15803
35°	11638	12480	14265
40°	9797	10573	12349
45°	8084	8782	10309
50°	6750	7358	8589
55°	5730	6315	7094
60°	4897	5475	5661
65°	3899	4604	3657
70°	3458	3593	2231
75°	3201	2912	1365
80°	2949	2683	1180
85°	2668	2456	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	6.3
10°-20°	548.7	16.4
20°-30°	710.7	21.2
30°-40°	696.0	20.8
40°-50°	532.7	15.9
50°-60°	355.0	10.6
60°-70°	193.7	5.8
70°-80°	80.7	2.4
80°-90°	22.9	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°	1470.3	43.9
0°-40°	2166.3	64.6
0°-60°	3054.0	91.1
0°-90°	3351.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2262	2240	2254	2260	2268	210
15°	1913	1906	1958	2011	2046	534
25°	1462	1466	1542	1609	1680	672
35°	1033	1038	1108	1183	1266	642
45°	620	631	673	724	790	483
55°	356	371	393	407	441	323
65°	179	193	211	184	168	186
75°	90	90	82	56	38	96
85°	25	25	23	15	9	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.8	2299.8	2299.8	2299.8	2299.8
2.5°	2305.5	2284.9	2290.1	2290.0	2283.7
5°	2262.5	2239.8	2254.4	2259.6	2267.5
7.5°	2178.5	2161.3	2188.0	2207.7	2223.7
10°	2113.1	2098.3	2132.3	2161.0	2181.7
12.5°	2037.2	2024.8	2066.9	2105.5	2132.5
15°	1913.3	1906.4	1957.7	2011.0	2045.5
17.5°	1780.7	1777.4	1836.2	1898.4	1942.6
20°	1690.3	1689.3	1753.9	1818.6	1869.9
22.5°	1599.1	1601.2	1669.1	1736.4	1794.8
25°	1462.2	1466.2	1541.9	1609.2	1680.2
27.5°	1335.7	1337.5	1415.8	1486.8	1562.5
30°	1249.3	1254.2	1331.0	1404.5	1483.4
32.5°	1162.9	1168.6	1243.9	1319.8	1400.3
35°	1033.3	1038.3	1108.0	1182.6	1266.5
37.5°	899.7	906.4	968.4	1038.9	1121.3
40°	813.4	823.2	877.9	944.4	1025.3
42.5°	730.2	742.4	793.2	856.2	929.2
45°	619.6	631.4	673.1	724.0	790.1
47.5°	524.3	538.0	570.0	613.8	670.3
50°	470.3	483.1	512.6	545.1	598.4
52.5°	422.6	435.4	461.8	486.8	532.2
55°	356.2	371.0	392.6	407.4	441.0
57.5°	301.7	315.9	333.0	339.7	360.1
60°	265.4	281.2	296.7	295.9	306.8
62.5°	232.3	245.7	261.2	250.5	251.1
65°	178.6	193.4	210.9	184.3	167.5
67.5°	144.3	147.5	165.5	128.5	108.6
70°	128.2	128.2	133.2	99.5	82.7
72.5°	112.8	112.8	108.2	80.9	63.4
75°	89.8	89.8	81.7	56.1	38.3
77.5°	69.2	68.4	62.6	41.9	27.9
80°	55.5	55.5	50.5	33.1	22.2
82.5°	43.4	43.4	39.2	25.8	16.5
85°	25.2	25.2	23.2	15.0	9.1
87.5°	8.9	8.9	8.1	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)