

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: P521902

Luminaire Tested: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_4000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521902
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-125D-92765-1D-UNV-STD-W-4_4000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4424.2 lumens
Efficiency: N/A
Efficacy: 79.3 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

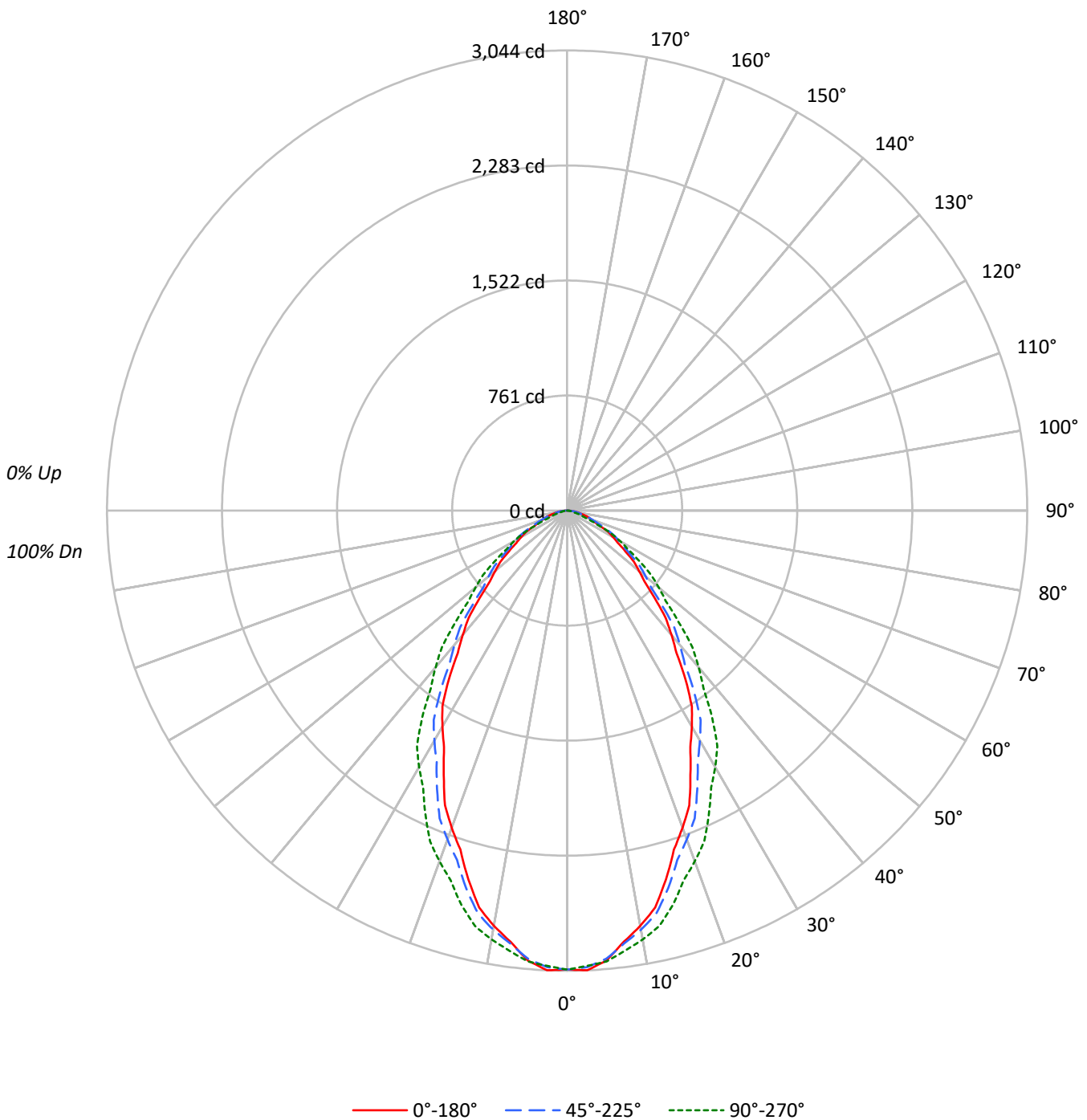
Input Watts (W): 55.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	28012	28012	28012
5°	27662	27564	27724
10°	26135	26372	26984
15°	24127	24686	25793
20°	21910	22733	24238
25°	19651	20722	22580
30°	17571	18720	20864
35°	15365	16476	18831
40°	12933	13959	16301
45°	10673	11594	13610
50°	8911	9714	11339
55°	7565	8335	9365
60°	6466	7228	7473
65°	5148	6078	4827
70°	4564	4745	2946
75°	4228	3846	1804
80°	3895	3539	1557
85°	3525	3239	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13610 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	6.3
10°-20°	724.4	16.4
20°-30°	938.2	21.2
30°-40°	918.8	20.8
40°-50°	703.3	15.9
50°-60°	468.6	10.6
60°-70°	255.7	5.8
70°-80°	106.6	2.4
80°-90°	30.2	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°	1941.1	43.9
0°-40°	2859.9	64.6
0°-60°	4031.7	91.1
0°-90°	4424.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	2987	2957	2976	2983	2994	278
15°	2526	2517	2584	2655	2700	705
25°	1930	1936	2036	2124	2218	888
35°	1364	1371	1463	1561	1672	848
45°	818	834	889	956	1043	638
55°	470	490	518	538	582	426
65°	236	255	278	243	221	245
75°	119	119	108	74	51	127
85°	33	33	31	20	12	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3043.6	3016.5	3023.3	3023.2	3014.8
5°	2986.8	2956.9	2976.2	2983.1	2993.5
7.5°	2876.0	2853.3	2888.5	2914.6	2935.7
10°	2789.7	2770.1	2815.0	2852.9	2880.3
12.5°	2689.5	2673.1	2728.7	2779.6	2815.2
15°	2525.9	2516.8	2584.5	2654.8	2700.4
17.5°	2350.8	2346.4	2424.1	2506.2	2564.5
20°	2231.5	2230.2	2315.4	2400.9	2468.6
22.5°	2111.0	2113.9	2203.5	2292.4	2369.5
25°	1930.4	1935.6	2035.6	2124.4	2218.1
27.5°	1763.3	1765.7	1869.1	1962.8	2062.8
30°	1649.3	1655.8	1757.2	1854.2	1958.4
32.5°	1535.3	1542.8	1642.1	1742.3	1848.6
35°	1364.2	1370.7	1462.8	1561.2	1671.9
37.5°	1187.8	1196.7	1278.4	1371.5	1480.4
40°	1073.8	1086.8	1159.0	1246.7	1353.5
42.5°	964.0	980.1	1047.1	1130.3	1226.7
45°	818.0	833.6	888.6	955.9	1043.1
47.5°	692.2	710.2	752.4	810.4	884.9
50°	620.8	637.7	676.8	719.7	790.0
52.5°	557.9	574.9	609.6	642.7	702.6
55°	470.3	489.8	518.2	537.9	582.2
57.5°	398.3	417.1	439.6	448.5	475.3
60°	350.4	371.2	391.7	390.7	405.0
62.5°	306.7	324.4	344.8	330.7	331.5
65°	235.8	255.3	278.4	243.3	221.1
67.5°	190.5	194.7	218.5	169.7	143.3
70°	169.2	169.2	175.9	131.4	109.2
72.5°	148.9	148.9	142.8	106.8	83.7
75°	118.6	118.6	107.9	74.1	50.6
77.5°	91.4	90.3	82.6	55.3	36.8
80°	73.3	73.3	66.6	43.6	29.3
82.5°	57.3	57.3	51.7	34.1	21.8
85°	33.3	33.3	30.6	19.8	12.0
87.5°	11.7	11.7	10.7	6.4	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)