

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: P521022

Luminaire Tested: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_6500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521022
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5529.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

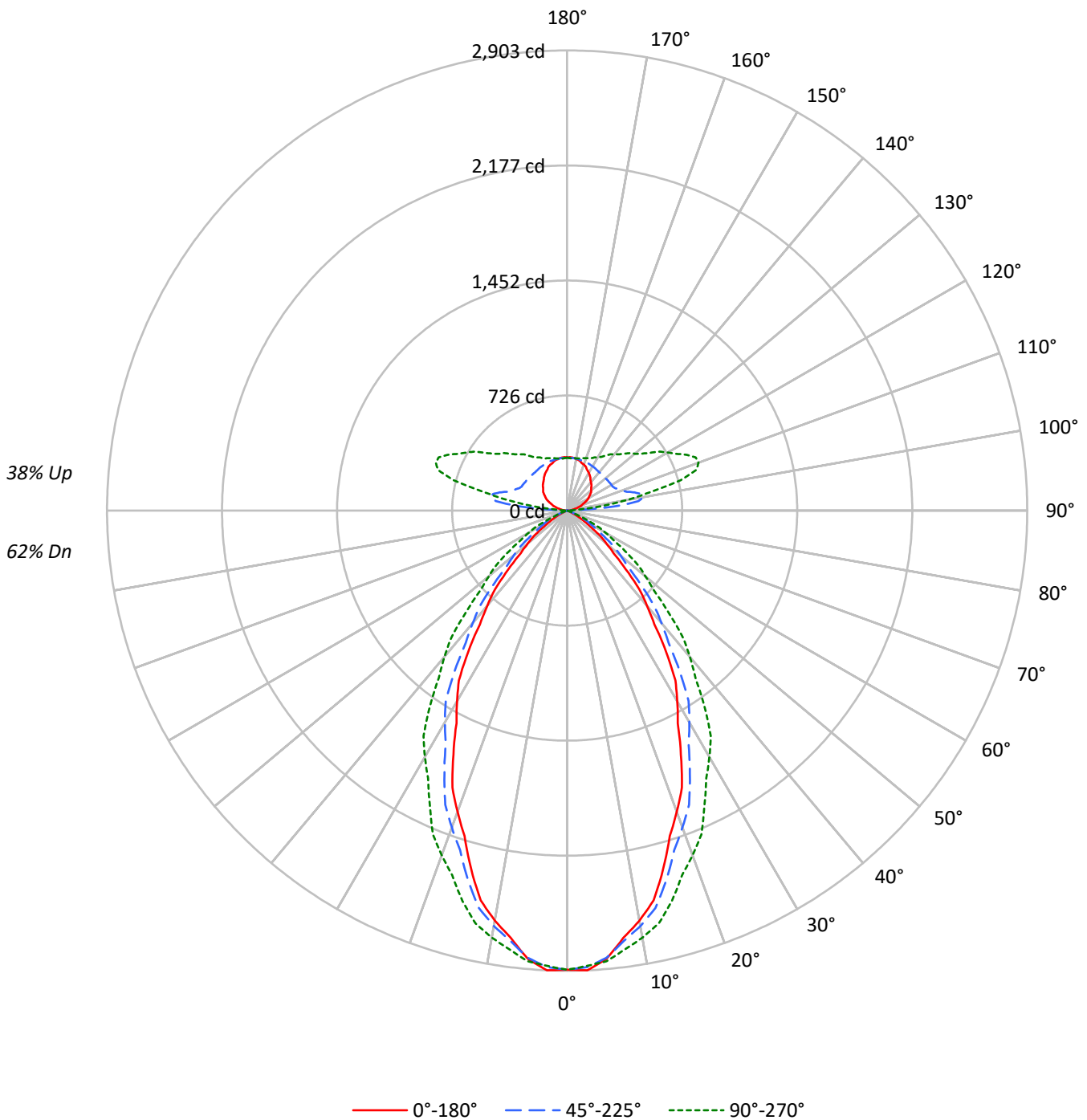
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	90	90	90		78	78	78		68	68	68	62
1	103	99	96	93	96	93	91	88	82	81	79		72	71	70		63	62	61	57
2	96	89	84	80	90	84	80	76	75	72	69		66	64	62		58	57	55	52
3	89	81	75	70	83	76	71	67	68	64	61		61	58	55		54	52	50	47
4	82	73	66	61	78	69	63	59	62	58	54		56	52	50		50	47	45	42
5	77	67	60	54	72	63	57	52	57	52	48		52	48	45		46	43	41	38
6	72	61	54	49	67	58	52	47	53	48	44		48	44	40		43	40	37	35
7	67	56	49	44	63	53	47	42	49	43	40		44	40	37		40	37	34	32
8	63	52	45	40	59	49	43	39	45	40	36		41	37	34		37	34	32	29
9	59	48	41	36	56	46	39	35	42	37	33		38	34	31		35	32	29	27
10	55	44	38	33	52	43	36	32	39	34	31		36	32	29		33	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26725	26725	26725
5°	26294	26229	26424
10°	24603	24932	25627
15°	22367	23076	24362
20°	19854	20886	22716
25°	17290	18660	20871
30°	14809	16437	19124
35°	12279	13953	17015
40°	9435	11156	14499
45°	6820	8447	11666
50°	4646	6295	9252
55°	3021	4554	7190
60°	1733	3207	5198
65°	458	1958	2631
70°	227	604	755
75°	100	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.3	4.8
10°-20°	676.0	12.2
20°-30°	846.3	15.3
30°-40°	781.7	14.1
40°-50°	525.3	9.5
50°-60°	271.3	4.9
60°-70°	85.0	1.5
70°-80°	5.4	0.1
80°-90°	0.1	0.0
90°-100°	152.2	2.8
100°-110°	433.0	7.8
110°-120°	414.9	7.5
120°-130°	328.4	5.9
130°-140°	263.6	4.8
140°-150°	206.3	3.7
150°-160°	151.0	2.7
160°-170°	93.5	1.7
170°-180°	31.7	0.6
0°-30°	1786.7	32.3
0°-40°	2568.4	46.4
0°-60°	3364.9	60.8
0°-90°	3455.4	62.5
90°-120°	1000.1	18.1
90°-150°	1798.3	32.5
90°-180°	2075.0	37.5
0°-180°	5529.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2839	2810	2832	2842	2853	263
15°	2342	2333	2416	2497	2550	652
25°	1698	1712	1833	1958	2050	779
35°	1090	1118	1239	1385	1511	675
45°	523	554	647	774	894	411
55°	188	219	283	363	447	175
65°	21	40	90	108	120	35
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2896.6	2896.6	2896.6	2896.6	2896.6
2.5°	2903.3	2875.9	2883.1	2883.0	2875.3
5°	2839.1	2810.4	2832.1	2842.2	2853.1
7.5°	2719.2	2696.7	2738.5	2769.9	2792.6
10°	2626.1	2606.9	2661.2	2703.9	2735.4
12.5°	2518.5	2503.7	2569.2	2627.9	2668.2
15°	2341.7	2333.4	2415.9	2497.0	2550.5
17.5°	2152.2	2151.9	2246.1	2346.8	2411.2
20°	2022.1	2026.3	2127.2	2238.3	2313.6
22.5°	1892.1	1901.7	2009.5	2125.3	2211.6
25°	1698.4	1712.1	1833.0	1958.4	2050.2
27.5°	1512.3	1532.3	1659.5	1789.8	1901.6
30°	1390.1	1413.4	1542.9	1680.0	1795.1
32.5°	1270.2	1297.9	1424.0	1569.1	1686.4
35°	1090.2	1117.7	1238.8	1384.6	1510.7
37.5°	904.4	931.3	1049.6	1193.1	1329.3
40°	783.4	813.5	926.3	1065.4	1203.8
42.5°	673.5	703.6	809.7	946.4	1077.1
45°	522.7	554.2	647.4	773.5	894.1
47.5°	397.7	432.0	513.7	627.8	737.7
50°	323.7	358.0	438.6	539.1	644.6
52.5°	264.3	297.5	370.2	464.9	561.7
55°	187.8	219.3	283.1	363.4	447.0
57.5°	129.8	156.9	214.1	281.2	346.7
60°	93.9	119.9	173.8	228.2	281.7
62.5°	62.5	86.3	139.0	180.7	216.6
65°	21.0	40.2	89.7	108.2	120.5
67.5°	10.7	12.8	47.1	49.7	53.8
70°	8.4	8.4	22.4	23.9	28.0
72.5°	6.2	6.2	9.0	11.5	12.3
75°	2.8	2.8	1.4	0.0	0.0
77.5°	1.4	1.4	1.1	0.0	0.0
80°	1.4	1.4	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)