

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: P521750

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

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521750
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE 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: 6728.3 lumens
Efficiency: N/A
Efficacy: 97.1 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: Semi-Direct

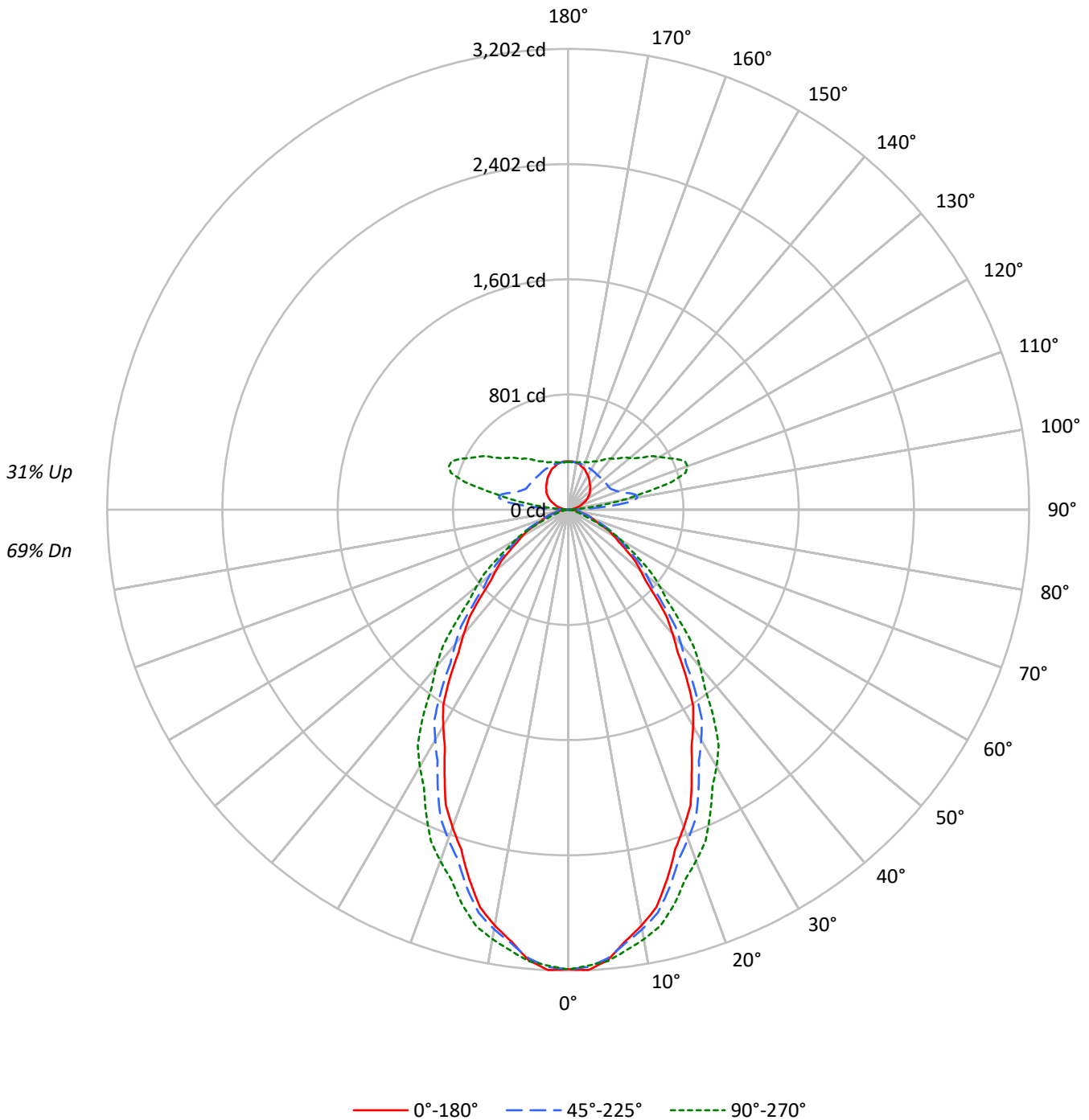
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74	69																				
1	104	100	96	93	98	95	92	89	85	83	81	76	74	73	68	66	65	61																				
2	96	89	84	79	90	85	80	76	76	73	69	69	66	63	62	59	58	54																				
3	88	80	73	68	84	76	70	65	69	64	60	62	59	56	56	53	51	48																				
4	82	72	65	59	77	69	62	57	62	57	53	57	53	49	51	48	45	43																				
5	76	65	58	52	72	62	56	50	57	51	47	52	47	44	47	44	41	38																				
6	71	59	52	46	67	57	50	45	52	46	42	48	43	40	44	40	37	35																				
7	66	54	47	42	63	52	45	40	48	42	38	44	39	36	40	36	34	31																				
8	62	50	43	38	59	48	41	37	44	39	35	41	36	33	37	34	31	29																				
9	58	46	39	34	55	44	38	33	41	36	32	38	33	30	35	31	28	26																				
10	54	43	36	31	52	41	35	31	38	33	29	35	31	28	33	29	26	24																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29466	29466	29466
5°	29098	28994	29162
10°	27491	27740	28384
15°	25379	25967	27132
20°	23047	23913	25495
25°	20671	21798	23752
30°	18483	19692	21946
35°	16163	17331	19808
40°	13604	14684	17148
45°	11226	12196	14317
50°	9373	10218	11928
55°	7957	8768	9851
60°	6802	7602	7861
65°	5414	6394	5078
70°	4802	4990	3099
75°	4445	4046	1900
80°	4096	3725	1636
85°	3705	3409	1334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	4.4
10°-20°	761.9	11.3
20°-30°	986.9	14.7
30°-40°	966.4	14.4
40°-50°	739.8	11.0
50°-60°	492.9	7.3
60°-70°	269.0	4.0
70°-80°	112.1	1.7
80°-90°	31.7	0.5
90°-100°	152.2	2.3
100°-110°	433.0	6.4
110°-120°	414.9	6.2
120°-130°	328.4	4.9
130°-140°	263.6	3.9
140°-150°	206.3	3.1
150°-160°	151.0	2.2
160°-170°	93.5	1.4
170°-180°	31.7	0.5
0°-30°	2041.8	30.3
0°-40°	3008.2	44.7
0°-60°	4240.9	63.0
0°-90°	4653.8	69.2
90°-120°	1000.1	14.9
90°-150°	1798.3	26.7
90°-180°	2075.0	30.8
0°-180°	6728.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3194	3194	3194	3194	3194	
5°	3142	3110	3131	3138	3149	292
15°	2657	2647	2719	2793	2840	742
25°	2031	2036	2141	2235	2333	934
35°	1435	1442	1539	1642	1759	892
45°	860	877	935	1006	1097	671
55°	495	515	545	566	612	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	38
90°	0	0	0	0	0	2
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°	3193.7	3193.7	3193.7	3193.7	3193.7
2.5°	3201.5	3173.0	3180.2	3180.0	3171.2
5°	3141.8	3110.3	3130.6	3137.9	3148.8
7.5°	3025.2	3001.4	3038.4	3065.8	3088.0
10°	2934.4	2913.9	2961.0	3000.9	3029.7
12.5°	2829.0	2811.8	2870.2	2923.8	2961.3
15°	2657.0	2647.4	2718.6	2792.6	2840.5
17.5°	2472.8	2468.2	2549.9	2636.2	2697.6
20°	2347.3	2345.9	2435.5	2525.4	2596.7
22.5°	2220.6	2223.6	2317.8	2411.3	2492.4
25°	2030.6	2036.0	2141.3	2234.6	2333.2
27.5°	1854.8	1857.3	1966.1	2064.6	2169.8
30°	1734.9	1741.7	1848.4	1950.4	2060.0
32.5°	1614.9	1622.9	1727.3	1832.7	1944.5
35°	1435.0	1441.8	1538.7	1642.2	1758.7
37.5°	1249.4	1258.8	1344.7	1442.6	1557.2
40°	1129.5	1143.2	1219.2	1311.4	1423.8
42.5°	1014.0	1031.0	1101.5	1189.0	1290.4
45°	860.4	876.9	934.7	1005.5	1097.3
47.5°	728.1	747.0	791.5	852.4	930.8
50°	653.0	670.8	711.9	757.0	831.0
52.5°	586.9	604.7	641.3	676.0	739.1
55°	494.7	515.2	545.1	565.8	612.4
57.5°	419.0	438.7	462.4	471.8	500.0
60°	368.6	390.5	412.0	410.9	426.0
62.5°	322.6	341.2	362.7	347.8	348.7
65°	248.0	268.6	292.9	255.9	232.6
67.5°	200.4	204.8	229.8	178.5	150.8
70°	178.0	178.0	185.0	138.2	114.9
72.5°	156.7	156.7	150.2	112.4	88.0
75°	124.7	124.7	113.5	77.9	53.3
77.5°	96.1	95.0	86.9	58.1	38.7
80°	77.1	77.1	70.1	45.9	30.8
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.0	35.0	32.2	20.8	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
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)