

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: P521021

Luminaire Tested: SQ4-BB-025U-125D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521021
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_5700K
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

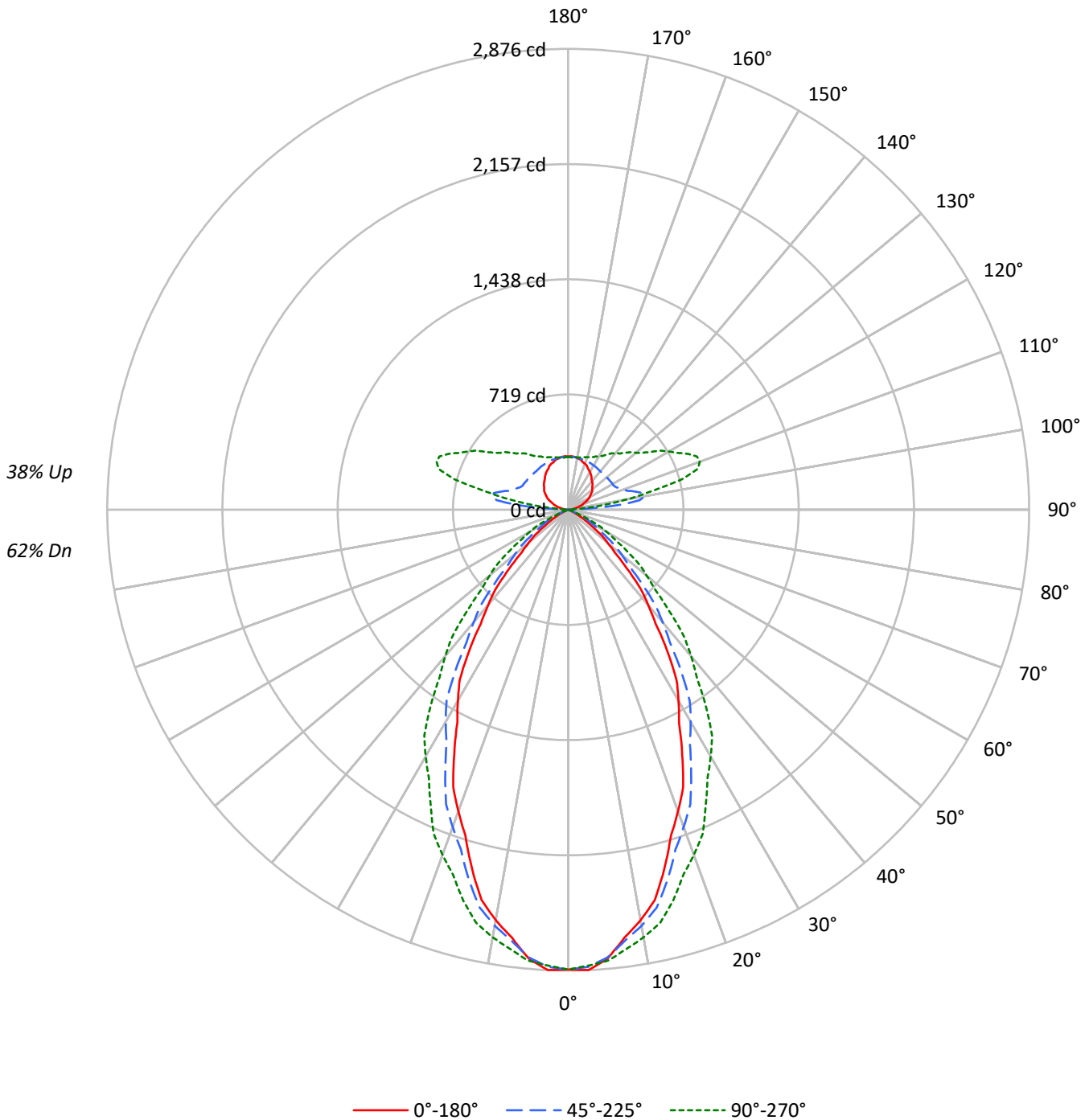
Input Watts (W): 69.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	26474	26474	26474
5°	26048	25983	26176
10°	24372	24697	25386
15°	22157	22859	24132
20°	19668	20690	22503
25°	17128	18484	20675
30°	14671	16283	18945
35°	12164	13822	16855
40°	9346	11052	14362
45°	6756	8368	11556
50°	4603	6237	9166
55°	2992	4510	7123
60°	1716	3176	5148
65°	454	1939	2607
70°	224	599	750
75°	100	50	0
80°	74	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	4.8
10°-20°	669.7	12.2
20°-30°	838.4	15.3
30°-40°	774.4	14.1
40°-50°	520.3	9.5
50°-60°	268.8	4.9
60°-70°	84.2	1.5
70°-80°	5.3	0.1
80°-90°	0.1	0.0
90°-100°	150.8	2.8
100°-110°	428.9	7.8
110°-120°	411.0	7.5
120°-130°	325.3	5.9
130°-140°	261.1	4.8
140°-150°	204.4	3.7
150°-160°	149.6	2.7
160°-170°	92.6	1.7
170°-180°	31.4	0.6
0°-30°	1769.9	32.3
0°-40°	2544.3	46.4
0°-60°	3333.3	60.8
0°-90°	3422.9	62.5
90°-120°	990.7	18.1
90°-150°	1781.4	32.5
90°-180°	2055.0	37.5
0°-180°	5478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2812	2784	2806	2816	2826	261
15°	2320	2312	2393	2474	2526	646
25°	1682	1696	1816	1940	2031	771
35°	1080	1107	1227	1372	1496	669
45°	518	549	641	766	886	407
55°	186	217	280	360	443	174
65°	21	40	89	107	119	35
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2869.4	2869.4	2869.4	2869.4	2869.4
2.5°	2876.0	2848.9	2856.1	2855.9	2848.3
5°	2812.5	2784.0	2805.5	2815.5	2826.3
7.5°	2693.6	2671.4	2712.8	2743.8	2766.4
10°	2601.5	2582.5	2636.2	2678.5	2709.7
12.5°	2494.8	2480.2	2545.1	2603.2	2643.1
15°	2319.7	2311.5	2393.2	2473.6	2526.5
17.5°	2132.0	2131.7	2225.0	2324.7	2388.5
20°	2003.2	2007.2	2107.3	2217.2	2291.9
22.5°	1874.3	1883.8	1990.7	2105.3	2190.8
25°	1682.5	1696.1	1815.7	1940.0	2030.9
27.5°	1498.1	1517.9	1643.9	1773.0	1883.8
30°	1377.1	1400.2	1528.4	1664.2	1778.3
32.5°	1258.3	1285.7	1410.7	1554.4	1670.5
35°	1080.0	1107.2	1227.2	1371.6	1496.5
37.5°	895.9	922.5	1039.8	1181.9	1316.8
40°	776.0	805.9	917.6	1055.4	1192.5
42.5°	667.2	697.0	802.1	937.5	1067.0
45°	517.8	549.0	641.3	766.2	885.7
47.5°	394.0	427.9	508.9	621.9	730.7
50°	320.7	354.6	434.5	534.0	638.6
52.5°	261.8	294.7	366.8	460.6	556.4
55°	186.0	217.2	280.4	360.0	442.8
57.5°	128.5	155.4	212.1	278.6	343.4
60°	93.0	118.8	172.1	226.1	279.0
62.5°	61.9	85.5	137.7	179.1	214.6
65°	20.8	39.8	88.8	107.2	119.4
67.5°	10.6	12.7	46.6	49.2	53.3
70°	8.3	8.3	22.2	23.7	27.8
72.5°	6.1	6.1	8.9	11.4	12.2
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°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)