

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: P521268

Luminaire Tested: SQ4-BB-125U-100D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521268
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-125U-100D-92765-1D-UNV-STD-W-4_5700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 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: 8530.8 lumens
Efficiency: N/A
Efficacy: 101.9 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-Indirect

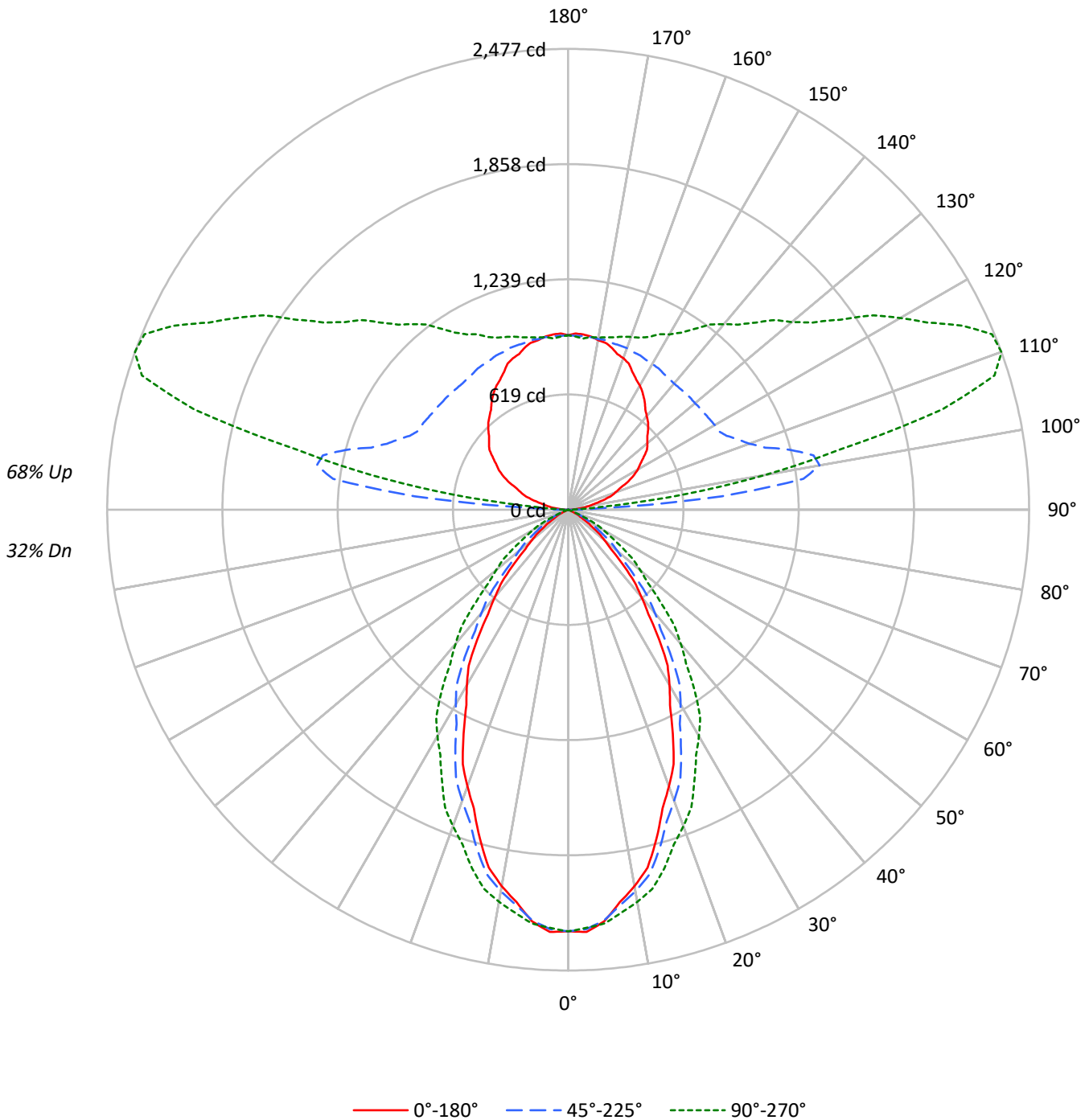
Input Watts (W): 83.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	92	92	92	92	73	73	73		56	56	56		39	39	39	32
1	95	91	88	85	85	82	79	77	66	64	62		50	49	48		36	36	35	29
2	87	81	75	71	79	73	69	65	59	56	53		46	44	42		33	32	32	26
3	80	72	66	61	72	65	60	56	53	49	46		41	39	37		31	29	28	24
4	74	65	58	52	67	59	53	48	48	44	40		38	35	33		28	27	25	21
5	68	58	51	45	62	53	47	42	43	39	36		34	31	29		26	24	23	19
6	63	52	45	40	57	48	42	37	39	35	32		32	28	26		24	22	21	18
7	59	48	40	35	53	44	37	33	36	32	28		29	26	24		22	20	19	16
8	55	44	36	32	50	40	34	30	33	29	25		27	24	21		21	19	17	15
9	51	40	33	28	46	37	31	27	31	26	23		25	22	20		19	17	16	14
10	48	37	30	26	43	34	28	24	28	24	21		23	20	18		18	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20910	20910	20910
5°	20573	20522	20675
10°	19250	19507	20051
15°	17501	18056	19060
20°	15535	16342	17773
25°	13528	14600	16330
30°	11588	12861	14964
35°	9607	10917	13313
40°	7382	8729	11344
45°	5337	6610	9127
50°	3636	4926	7240
55°	2363	3563	5627
60°	1356	2510	4067
65°	358	1533	2059
70°	178	472	591
75°	78	39	0
80°	58	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	2.4
10°-20°	528.9	6.2
20°-30°	662.2	7.8
30°-40°	611.6	7.2
40°-50°	411.0	4.8
50°-60°	212.3	2.5
60°-70°	66.5	0.8
70°-80°	4.2	0.0
80°-90°	0.1	0.0
90°-100°	427.5	5.0
100°-110°	1216.3	14.3
110°-120°	1165.4	13.7
120°-130°	922.3	10.8
130°-140°	740.3	8.7
140°-150°	579.6	6.8
150°-160°	424.1	5.0
160°-170°	262.7	3.1
170°-180°	89.1	1.0
0°-30°	1397.9	16.4
0°-40°	2009.6	23.6
0°-60°	2632.8	30.9
0°-90°	2703.6	31.7
90°-120°	2809.1	32.9
90°-150°	5051.4	59.2
90°-180°	5827.0	68.3
0°-180°	8530.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2266	2266	2266	2266	2266	
5°	2221	2199	2216	2224	2232	206
15°	1832	1826	1890	1954	1996	510
25°	1329	1340	1434	1532	1604	609
35°	853	874	969	1083	1182	528
45°	409	434	507	605	700	321
55°	147	172	222	284	350	137
65°	16	32	70	85	94	28
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2266.4	2266.4	2266.4	2266.4	2266.4
2.5°	2271.6	2250.2	2255.8	2255.7	2249.7
5°	2221.4	2198.9	2215.9	2223.8	2232.4
7.5°	2127.6	2110.0	2142.7	2167.2	2185.0
10°	2054.7	2039.7	2082.2	2115.6	2140.3
12.5°	1970.5	1959.0	2010.2	2056.1	2087.6
15°	1832.2	1825.7	1890.3	1953.7	1995.5
17.5°	1683.9	1683.7	1757.4	1836.2	1886.6
20°	1582.2	1585.4	1664.4	1751.3	1810.2
22.5°	1480.4	1487.9	1572.3	1662.9	1730.4
25°	1328.9	1339.6	1434.2	1532.3	1604.1
27.5°	1183.3	1198.9	1298.4	1400.4	1487.9
30°	1087.7	1105.9	1207.2	1314.5	1404.6
32.5°	993.8	1015.5	1114.2	1227.7	1319.5
35°	853.0	874.5	969.3	1083.3	1182.0
37.5°	707.6	728.7	821.2	933.5	1040.1
40°	612.9	636.5	724.8	833.6	941.9
42.5°	527.0	550.5	633.5	740.5	842.7
45°	409.0	433.6	506.6	605.2	699.5
47.5°	311.2	338.0	402.0	491.2	577.2
50°	253.3	280.1	343.2	421.8	504.4
52.5°	206.8	232.7	289.7	363.8	439.5
55°	146.9	171.6	221.5	284.4	349.8
57.5°	101.5	122.8	167.5	220.0	271.3
60°	73.5	93.8	136.0	178.6	220.4
62.5°	48.9	67.6	108.8	141.4	169.5
65°	16.4	31.5	70.2	84.6	94.3
67.5°	8.3	10.0	36.8	38.9	42.1
70°	6.6	6.6	17.5	18.7	21.9
72.5°	4.8	4.8	7.0	9.0	9.6
75°	2.2	2.2	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.2	0.2	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°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)