

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

(formerly Eaton)

Brand: CORELITE

Report Number: P518386

Luminaire Tested: **SQ4-BB-025U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518386
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6388.9 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

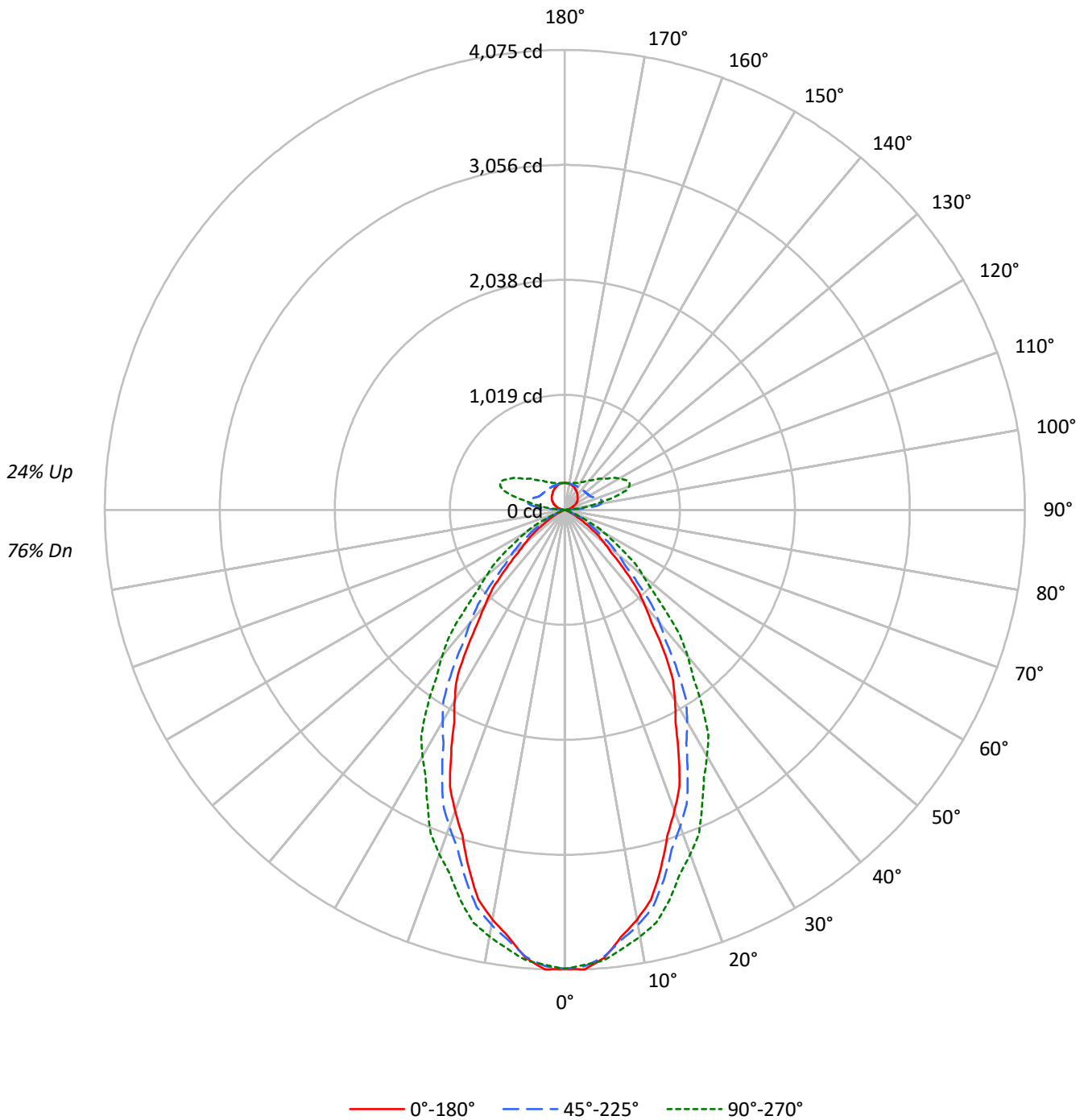
Input Watts (W): 101.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P518386

CATALOG NUMBER: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P518386

CATALOG NUMBER: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8

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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76				
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	69				
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	63				
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	57				
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	51				
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	46				
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	42				
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	39				
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	36				
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	33				
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18756	18756	18756
5°	18455	18409	18546
10°	17268	17498	17986
15°	15698	16196	17098
20°	13935	14659	15943
25°	12135	13096	14648
30°	10394	11536	13422
35°	8619	9793	11942
40°	6622	7830	10175
45°	4787	5929	8188
50°	3261	4419	6494
55°	2120	3195	5047
60°	1216	2250	3648
65°	322	1374	1847
70°	159	425	530
75°	70	36	0
80°	53	0	0
85°	0	0	0



TEST NUMBER: P518386

CATALOG NUMBER: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	5.8
10°-20°	948.9	14.9
20°-30°	1188.0	18.6
30°-40°	1097.3	17.2
40°-50°	737.3	11.5
50°-60°	380.8	6.0
60°-70°	119.3	1.9
70°-80°	7.6	0.1
80°-90°	1.4	0.0
90°-100°	115.6	1.8
100°-110°	303.9	4.8
110°-120°	315.1	4.9
120°-130°	252.8	4.0
130°-140°	198.3	3.1
140°-150°	152.2	2.4
150°-160°	109.6	1.7
160°-170°	67.1	1.0
170°-180°	22.7	0.4
0°-30°	2507.9	39.3
0°-40°	3605.2	56.4
0°-60°	4723.4	73.9
0°-90°	4851.6	75.9
90°-120°	734.6	11.5
90°-150°	1337.9	20.9
90°-180°	1537.0	24.1
0°-180°	6388.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4066	4066	4066	4066	4066	
5°	3985	3945	3976	3990	4005	369
15°	3287	3275	3391	3505	3580	915
25°	2384	2403	2573	2749	2878	1093
35°	1530	1569	1739	1944	2120	948
45°	734	778	909	1086	1255	576
55°	264	308	397	510	628	246
65°	30	56	126	152	169	50
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	4	12	6	6	1
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

TEST NUMBER: P518386

CATALOG NUMBER: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4065.9	4065.9	4065.9	4065.9	4065.9
2.5°	4075.4	4036.9	4047.1	4046.8	4036.0
5°	3985.3	3944.9	3975.5	3989.6	4005.0
7.5°	3816.9	3785.4	3844.1	3888.1	3920.0
10°	3686.3	3659.4	3735.5	3795.5	3839.7
12.5°	3535.2	3514.5	3606.4	3688.8	3745.3
15°	3287.0	3275.4	3391.2	3505.1	3580.1
17.5°	3021.0	3020.6	3152.8	3294.1	3384.5
20°	2838.5	2844.3	2986.0	3141.9	3247.6
22.5°	2655.9	2669.4	2820.8	2983.3	3104.4
25°	2384.1	2403.3	2572.9	2749.0	2877.8
27.5°	2122.9	2150.9	2329.4	2512.4	2669.3
30°	1951.3	1984.0	2165.7	2358.3	2519.8
32.5°	1783.0	1821.8	1998.9	2202.5	2367.2
35°	1530.4	1568.9	1738.9	1943.6	2120.5
37.5°	1269.5	1307.2	1473.3	1674.8	1866.0
40°	1099.6	1141.9	1300.2	1495.5	1689.7
42.5°	945.4	987.7	1136.6	1328.4	1511.9
45°	733.7	778.0	908.8	1085.7	1255.0
47.5°	558.3	606.3	721.1	881.2	1035.5
50°	454.4	502.5	615.7	756.8	904.9
52.5°	371.0	417.5	519.7	652.6	788.4
55°	263.6	307.8	397.3	510.2	627.5
57.5°	182.2	220.2	300.6	394.7	486.7
60°	131.8	168.3	243.9	320.4	395.4
62.5°	87.7	121.2	195.1	253.7	304.1
65°	29.5	56.4	125.9	151.9	169.2
67.5°	14.9	18.0	66.1	69.8	75.5
70°	11.8	11.8	31.5	33.6	39.3
72.5°	8.7	8.7	12.6	16.2	17.3
75°	3.9	3.9	2.0	0.0	0.0
77.5°	2.0	2.0	1.6	0.0	0.0
80°	2.0	2.0	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.9	2.4	1.2	1.2
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

TEST NUMBER: P518386

CATALOG NUMBER: SQ4-BB-025U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)