

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: P518674

Luminaire Tested: **SQ4-BB-0U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518674
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

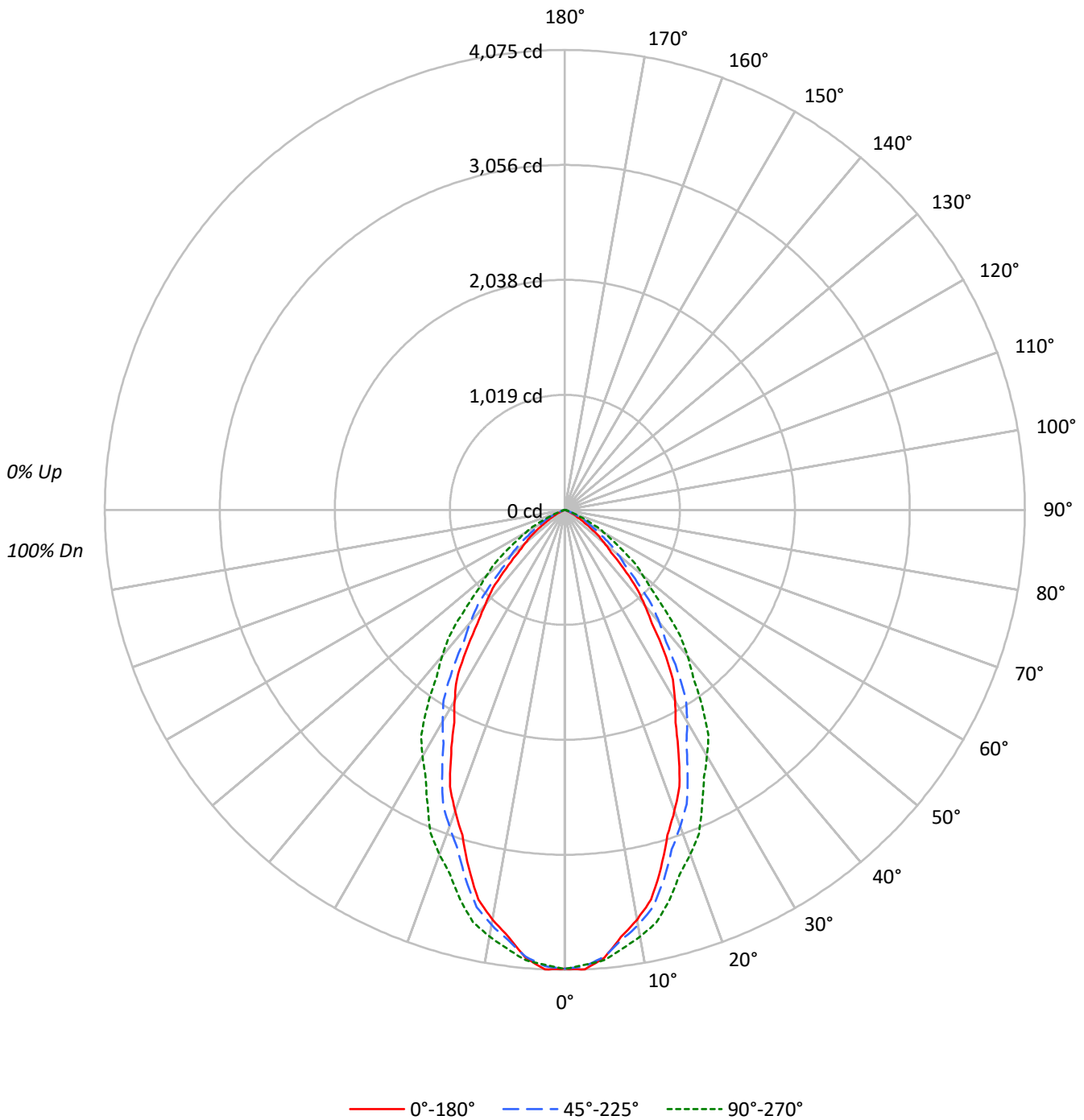
Lumens per Lamp: N/A
Luminaire Lumens: 4850.3 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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: P518674
CATALOG NUMBER: SQ4-BB-0U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P518674

CATALOG NUMBER: SQ4-BB-0U-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

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: P518674

CATALOG NUMBER: SQ4-BB-0U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	7.7
10°-20°	948.9	19.6
20°-30°	1188.0	24.5
30°-40°	1097.3	22.6
40°-50°	737.3	15.2
50°-60°	380.8	7.9
60°-70°	119.3	2.5
70°-80°	7.6	0.2
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2507.9	51.7
0°-40°	3605.2	74.3
0°-60°	4723.4	97.4
0°-90°	4850.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4850.3	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°	0	0	0	0	0	0



TEST NUMBER: P518674

CATALOG NUMBER: SQ4-BB-0U-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°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)