

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: P518384

Luminaire Tested: **SQ4-BB-025U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518384
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-4
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

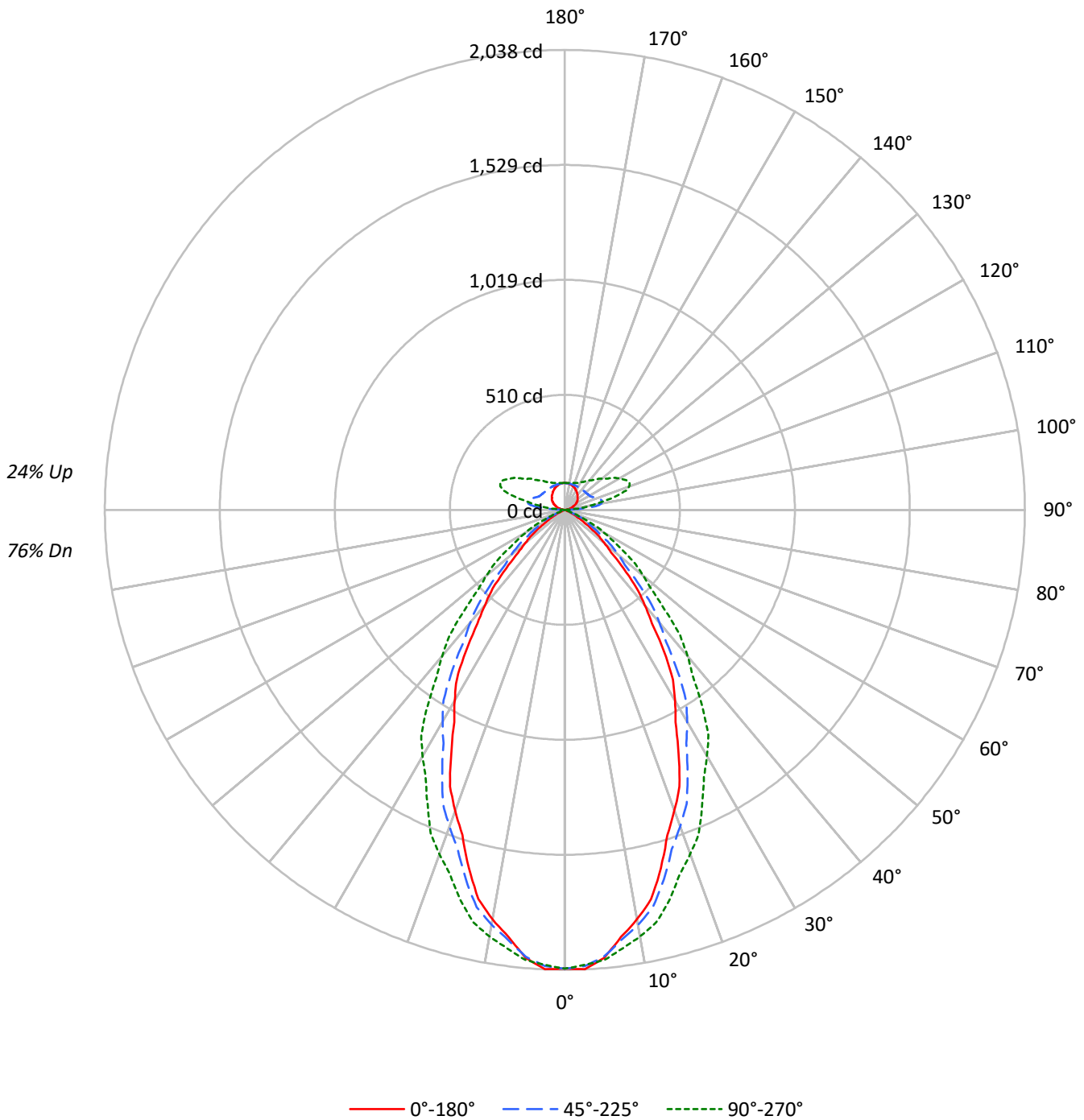
Lumens per Lamp: N/A
Luminaire Lumens: 3194.5 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	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°	18757	18757	18757
5°	18454	18409	18546
10°	17267	17498	17987
15°	15698	16196	17097
20°	13934	14659	15943
25°	12135	13097	14648
30°	10395	11537	13422
35°	8619	9792	11942
40°	6622	7830	10176
45°	4787	5929	8188
50°	3261	4418	6493
55°	2120	3196	5046
60°	1216	2251	3648
65°	323	1373	1847
70°	159	424	531
75°	71	36	0
80°	53	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	5.8
10°-20°	474.5	14.9
20°-30°	594.0	18.6
30°-40°	548.6	17.2
40°-50°	368.7	11.5
50°-60°	190.4	6.0
60°-70°	59.6	1.9
70°-80°	3.8	0.1
80°-90°	0.7	0.0
90°-100°	57.8	1.8
100°-110°	151.9	4.8
110°-120°	157.6	4.9
120°-130°	126.4	4.0
130°-140°	99.2	3.1
140°-150°	76.1	2.4
150°-160°	54.8	1.7
160°-170°	33.5	1.0
170°-180°	11.3	0.4
0°-30°	1254.0	39.3
0°-40°	1802.6	56.4
0°-60°	2361.7	73.9
0°-90°	2425.8	75.9
90°-120°	367.3	11.5
90°-150°	669.0	20.9
90°-180°	769.0	24.1
0°-180°	3194.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	1993	1972	1988	1995	2002	185
15°	1644	1638	1696	1752	1790	458
25°	1192	1202	1286	1374	1439	546
35°	765	784	869	972	1060	474
45°	367	389	454	543	628	288
55°	132	154	199	255	314	123
65°	15	28	63	76	85	25
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2037.7	2018.5	2023.5	2023.4	2018.0
5°	1992.6	1972.5	1987.7	1994.8	2002.5
7.5°	1908.5	1892.7	1922.0	1944.0	1960.0
10°	1843.1	1829.7	1867.7	1897.7	1919.9
12.5°	1767.6	1757.2	1803.2	1844.4	1872.7
15°	1643.5	1637.7	1695.6	1752.5	1790.0
17.5°	1510.5	1510.3	1576.4	1647.1	1692.3
20°	1419.2	1422.1	1493.0	1570.9	1623.8
22.5°	1328.0	1334.7	1410.4	1491.6	1552.2
25°	1192.0	1201.7	1286.5	1374.5	1438.9
27.5°	1061.4	1075.5	1164.7	1256.2	1334.7
30°	975.7	992.0	1082.9	1179.1	1259.9
32.5°	891.5	910.9	999.5	1101.3	1183.6
35°	765.2	784.4	869.4	971.8	1060.3
37.5°	634.8	653.6	736.7	837.4	933.0
40°	549.8	571.0	650.1	747.7	844.9
42.5°	472.7	493.8	568.3	664.2	755.9
45°	366.9	389.0	454.4	542.9	627.5
47.5°	279.1	303.2	360.6	440.6	517.7
50°	227.2	251.2	307.8	378.4	452.4
52.5°	185.5	208.8	259.9	326.3	394.2
55°	131.8	153.9	198.7	255.1	313.7
57.5°	91.1	110.1	150.3	197.4	243.3
60°	65.9	84.2	122.0	160.2	197.7
62.5°	43.9	60.6	97.6	126.9	152.1
65°	14.8	28.2	62.9	75.9	84.6
67.5°	7.5	9.0	33.0	34.9	37.8
70°	5.9	5.9	15.7	16.8	19.7
72.5°	4.3	4.3	6.3	8.1	8.7
75°	2.0	2.0	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	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°	0.2	0.4	1.2	0.6	0.6
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)