

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: P518394

Luminaire Tested: **SQ4-BB-025U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518394
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

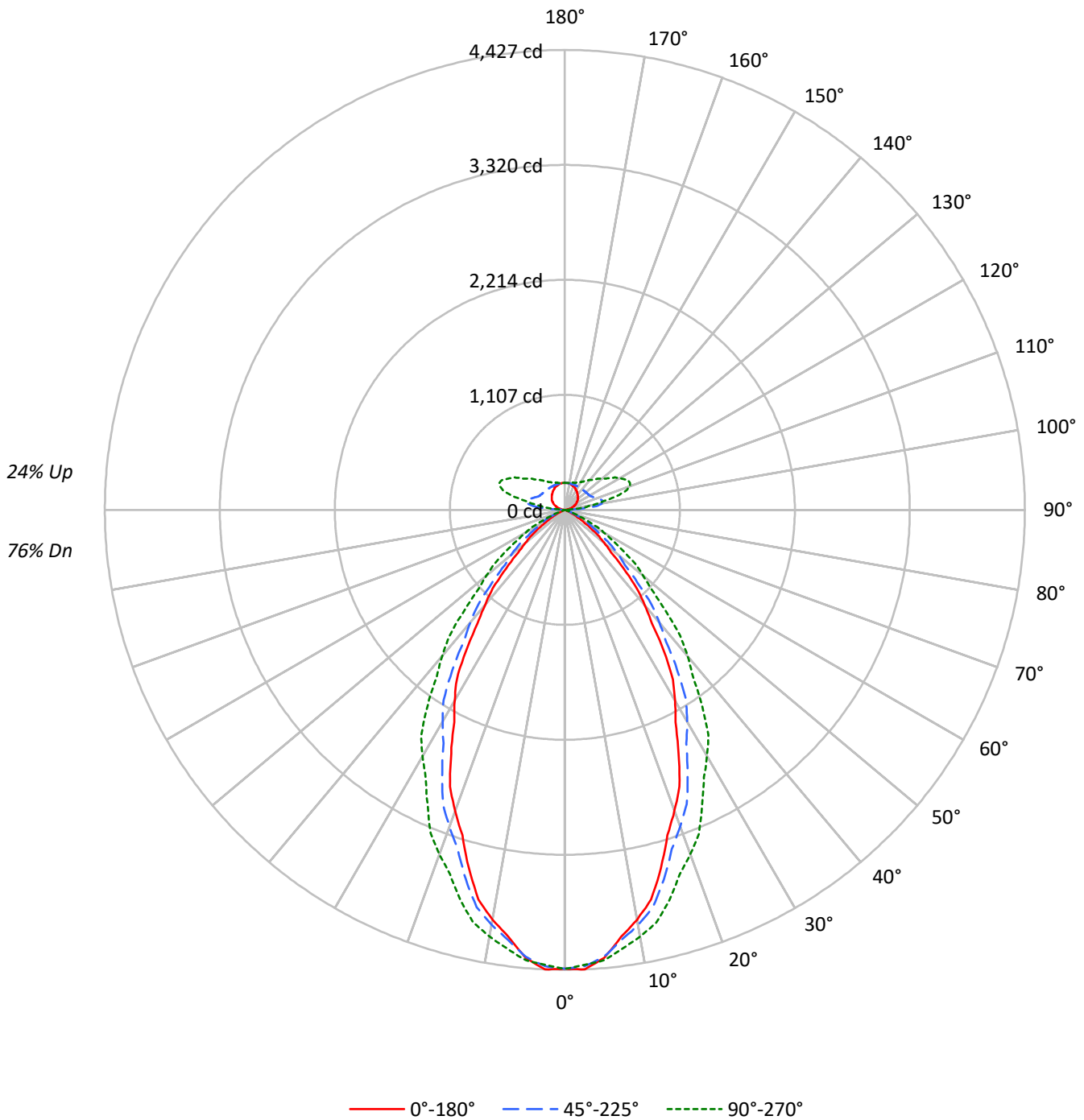
Lumens per Lamp: N/A
Luminaire Lumens: 6957.4 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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



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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									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	80	80	80	76																
1	106	103	100	97	101	98	96	93	90	88	86	82	80	79	75	74	73	73	73	73	69																
2	99	93	88	84	94	89	85	81	82	79	76	75	73	71	69	67	66	66	66	66	62																
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	61	59	59	59	59	56																
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	54	54	54	51																
5	80	70	63	58	77	68	61	57	63	58	54	59	55	51	55	51	49	49	49	49	46																
6	75	64	57	52	72	62	56	51	58	53	49	55	50	47	51	47	44	44	44	44	42																
7	70	59	52	47	67	58	51	46	54	48	45	51	46	43	47	44	41	41	41	41	39																
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	40	38	38	38	38	36																
9	62	51	44	40	60	50	43	39	47	41	38	44	39	36	42	38	35	35	35	35	33																
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	32	32	32	31																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20377	20377	20377
5°	20049	19999	20148
10°	18759	19009	19539
15°	17054	17595	18575
20°	15138	15925	17320
25°	13183	14227	15913
30°	11292	12533	14581
35°	9363	10639	12973
40°	7194	8506	11054
45°	5200	6441	8895
50°	3542	4801	7055
55°	2303	3472	5483
60°	1321	2445	3963
65°	350	1493	2006
70°	173	461	576
75°	77	37	0
80°	56	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	5.8
10°-20°	1030.9	14.8
20°-30°	1290.6	18.5
30°-40°	1192.0	17.1
40°-50°	801.0	11.5
50°-60°	413.7	5.9
60°-70°	129.6	1.9
70°-80°	8.2	0.1
80°-90°	1.5	0.0
90°-100°	126.8	1.8
100°-110°	333.5	4.8
110°-120°	345.8	5.0
120°-130°	277.3	4.0
130°-140°	217.6	3.1
140°-150°	167.0	2.4
150°-160°	120.3	1.7
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	2724.5	39.2
0°-40°	3916.6	56.3
0°-60°	5131.3	73.8
0°-90°	5270.6	75.8
90°-120°	806.1	11.6
90°-150°	1468.1	21.1
90°-180°	1687.0	24.2
0°-180°	6957.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4417	4417	4417	4417	4417	
5°	4330	4286	4319	4334	4351	401
15°	3571	3558	3684	3808	3889	995
25°	2590	2611	2795	2986	3126	1187
35°	1663	1704	1889	2111	2304	1030
45°	797	845	987	1180	1363	626
55°	286	334	432	554	682	267
65°	32	61	137	165	184	54
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	5	13	7	7	1
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4417.1	4417.1	4417.1	4417.1	4417.1
2.5°	4427.4	4385.6	4396.6	4396.3	4384.6
5°	4329.5	4285.6	4318.8	4334.1	4350.9
7.5°	4146.6	4112.3	4176.0	4223.9	4258.5
10°	4004.7	3975.4	4058.1	4123.3	4171.3
12.5°	3840.5	3818.0	3917.9	4007.3	4068.8
15°	3570.9	3558.3	3684.1	3807.8	3889.3
17.5°	3281.9	3281.5	3425.1	3578.6	3676.9
20°	3083.6	3089.9	3243.9	3413.2	3528.1
22.5°	2885.3	2900.0	3064.4	3240.9	3372.6
25°	2590.0	2610.9	2795.1	2986.4	3126.4
27.5°	2306.2	2336.7	2530.6	2729.4	2899.9
30°	2119.9	2155.4	2352.8	2561.9	2737.4
32.5°	1936.9	1979.1	2171.6	2392.8	2571.6
35°	1662.6	1704.3	1889.1	2111.4	2303.6
37.5°	1379.2	1420.1	1600.6	1819.4	2027.1
40°	1194.6	1240.5	1412.5	1624.6	1835.6
42.5°	1027.0	1073.0	1234.7	1443.1	1642.5
45°	797.1	845.1	987.3	1179.5	1363.4
47.5°	606.5	658.7	783.4	957.3	1124.9
50°	493.6	545.9	668.9	822.1	983.0
52.5°	403.0	453.6	564.6	709.0	856.5
55°	286.4	334.4	431.7	554.2	681.7
57.5°	197.9	239.3	326.5	428.8	528.7
60°	143.2	182.9	265.0	348.0	429.5
62.5°	95.3	131.7	212.0	275.6	330.4
65°	32.1	61.3	136.8	165.0	183.8
67.5°	16.2	19.6	71.8	75.8	82.1
70°	12.8	12.8	34.2	36.5	42.7
72.5°	9.4	9.4	13.7	17.6	18.8
75°	4.3	4.3	2.1	0.0	0.0
77.5°	2.1	2.1	1.7	0.0	0.0
80°	2.1	2.1	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	1.0	2.7	1.3	1.3
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)