

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521127

Luminaire Tested: **SQ4-BB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521127
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

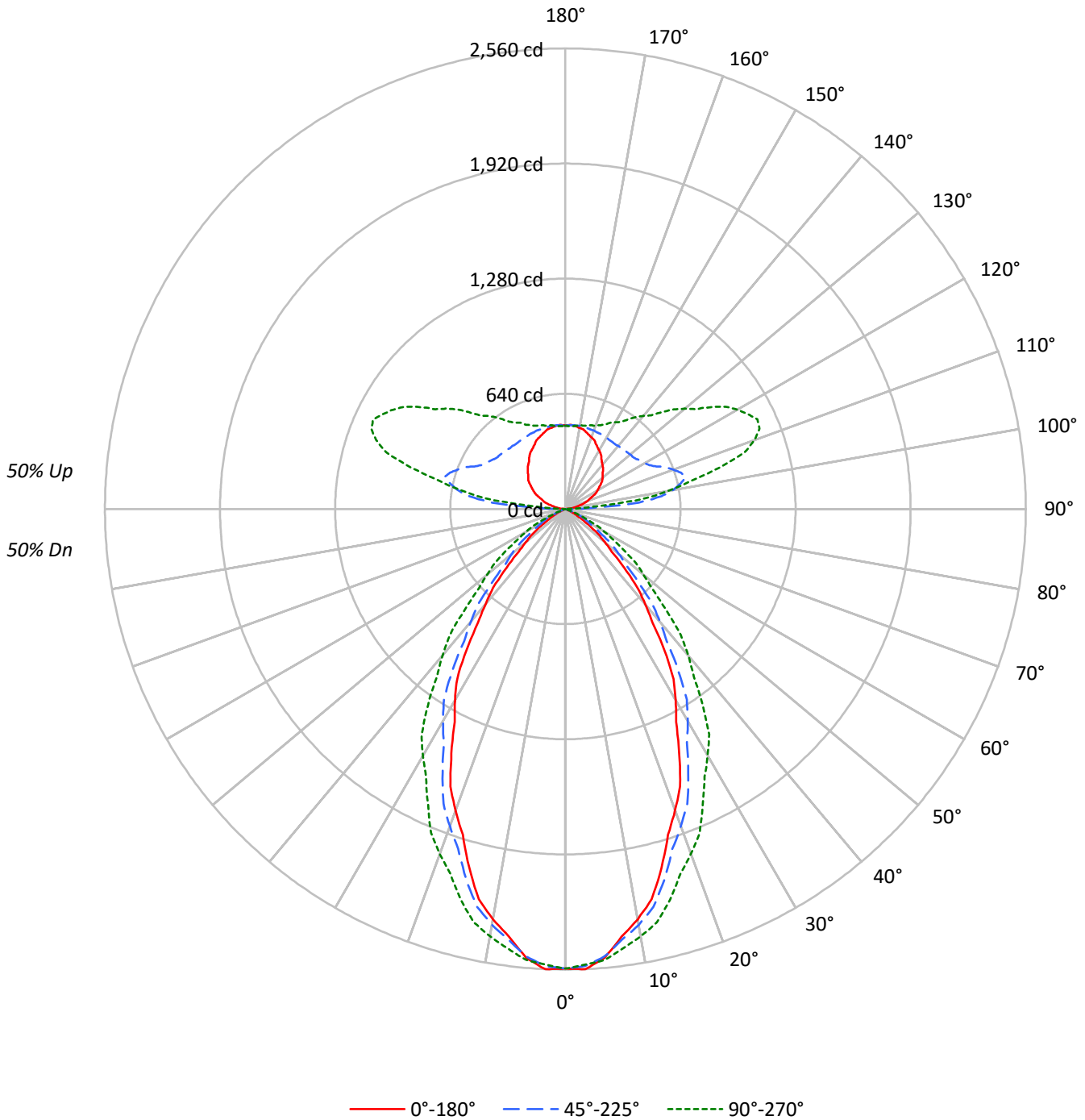
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6046.9 lumens
Efficiency: N/A
Efficacy: 76.4 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: General Diffuse

Input Watts (W): 79.1
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

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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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	100	96	93	90	92	89	86	84	76	74	72	64	63	61	53	52	51	46
2	92	86	81	77	85	80	76	72	69	66	63	58	56	54	49	47	46	42
3	85	77	71	66	79	72	67	62	62	58	55	53	50	48	45	43	41	38
4	79	70	63	58	73	65	59	55	57	52	49	49	46	43	41	39	37	34
5	73	63	56	51	68	59	53	48	52	47	43	45	41	39	38	36	34	31
6	68	58	50	45	63	54	48	43	47	43	39	41	38	35	36	33	31	28
7	64	53	46	41	59	50	43	39	44	39	35	38	34	32	33	30	28	26
8	60	48	41	37	55	46	39	35	40	35	32	35	32	29	31	28	26	24
9	56	45	38	33	52	42	36	32	37	33	29	33	29	27	29	26	24	22
10	52	41	35	30	49	39	33	29	35	30	27	31	27	25	27	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23568	23568	23568
5°	23189	23131	23304
10°	21698	21987	22601
15°	19725	20351	21484
20°	17509	18419	20033
25°	15248	16456	18405
30°	13061	14496	16866
35°	10829	12305	15005
40°	8320	9839	12786
45°	6015	7450	10288
50°	4098	5552	8160
55°	2664	4015	6341
60°	1528	2827	4584
65°	404	1727	2321
70°	200	534	666
75°	89	43	0
80°	64	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	3.9
10°-20°	596.2	9.9
20°-30°	746.3	12.3
30°-40°	689.4	11.4
40°-50°	463.2	7.7
50°-60°	239.3	4.0
60°-70°	74.9	1.2
70°-80°	4.7	0.1
80°-90°	0.1	0.0
90°-100°	238.8	3.9
100°-110°	577.2	9.5
110°-120°	615.6	10.2
120°-130°	498.6	8.2
130°-140°	386.0	6.4
140°-150°	294.5	4.9
150°-160°	213.2	3.5
160°-170°	131.3	2.2
170°-180°	44.5	0.7
0°-30°	1575.6	26.1
0°-40°	2265.0	37.5
0°-60°	2967.5	49.1
0°-90°	3047.3	50.4
90°-120°	1431.6	23.7
90°-150°	2610.7	43.2
90°-180°	3000.0	49.6
0°-180°	6046.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2504	2478	2498	2506	2516	232
15°	2065	2058	2131	2202	2249	575
25°	1498	1510	1616	1727	1808	687
35°	962	986	1092	1221	1332	596
45°	461	489	571	682	788	362
55°	166	193	250	320	394	155
65°	18	36	79	95	106	31
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	24	120	409	266	186	26
105°	92	159	694	898	886	97
115°	169	216	557	1057	1178	167
125°	240	277	484	840	987	215
135°	295	330	464	663	762	228
145°	349	375	455	563	607	218
155°	400	418	461	499	517	185
165°	442	449	467	474	481	125
175°	468	466	468	464	463	44
180°	463	463	463	463	463	



TEST NUMBER: P521127

CATALOG NUMBER: SQ4-BB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.5	2554.5	2554.5	2554.5	2554.5
2.5°	2560.4	2536.2	2542.6	2542.5	2535.7
5°	2503.8	2478.4	2497.6	2506.5	2516.2
7.5°	2398.0	2378.2	2415.1	2442.7	2462.8
10°	2316.0	2299.0	2346.9	2384.6	2412.4
12.5°	2221.1	2208.0	2265.8	2317.5	2353.0
15°	2065.1	2057.8	2130.6	2202.1	2249.2
17.5°	1898.0	1897.8	1980.8	2069.6	2126.4
20°	1783.3	1786.9	1876.0	1973.9	2040.4
22.5°	1668.6	1677.1	1772.2	1874.3	1950.4
25°	1497.8	1509.9	1616.5	1727.1	1808.0
27.5°	1333.7	1351.4	1463.5	1578.4	1677.0
30°	1226.0	1246.5	1360.7	1481.6	1583.1
32.5°	1120.2	1144.6	1255.9	1383.8	1487.2
35°	961.5	985.7	1092.5	1221.1	1332.2
37.5°	797.6	821.3	925.6	1052.2	1172.3
40°	690.8	717.4	816.9	939.5	1061.6
42.5°	593.9	620.5	714.1	834.6	949.9
45°	461.0	488.8	571.0	682.1	788.5
47.5°	350.7	380.9	453.1	553.6	650.5
50°	285.5	315.7	386.8	475.4	568.5
52.5°	233.1	262.3	326.5	410.0	495.3
55°	165.6	193.4	249.6	320.5	394.2
57.5°	114.4	138.4	188.8	248.0	305.7
60°	82.8	105.8	153.2	201.3	248.4
62.5°	55.1	76.1	122.6	159.4	191.1
65°	18.5	35.5	79.1	95.4	106.3
67.5°	9.4	11.3	41.5	43.8	47.5
70°	7.4	7.4	19.8	21.1	24.7
72.5°	5.4	5.4	7.9	10.2	10.9
75°	2.5	2.5	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	0.0	0.0
80°	1.2	1.2	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°	7.8	64.6	152.3	74.0	50.2
95°	23.5	119.5	409.2	266.1	186.4
97.5°	41.8	132.4	538.9	519.2	445.7
100°	55.9	140.4	610.3	644.3	583.8
102.5°	69.3	147.6	657.4	748.4	712.6
105°	92.2	159.4	693.7	897.5	886.0
107.5°	114.8	173.3	672.3	1017.2	1044.2
110°	130.5	185.2	637.8	1068.7	1119.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	197.0	607.2	1081.3	1168.2
115°	168.8	215.8	557.3	1056.6	1178.4
117.5°	191.1	235.5	528.1	999.8	1142.5
120°	206.1	247.3	509.2	955.2	1104.8
122.5°	221.8	259.9	497.5	909.6	1057.0
125°	240.4	276.9	483.7	840.3	987.1
127.5°	258.8	293.2	474.1	781.6	910.6
130°	269.8	303.4	471.0	740.8	867.4
132.5°	280.0	315.2	466.3	711.3	818.7
135°	295.3	329.9	464.1	662.6	762.4
137.5°	309.9	344.6	457.2	629.7	704.9
140°	320.9	352.5	457.2	606.0	675.1
142.5°	331.8	363.5	453.3	585.3	643.7
145°	349.3	375.2	455.3	563.2	607.4
147.5°	365.6	390.7	454.1	537.7	574.2
150°	375.8	397.9	457.2	526.6	555.4
152.5°	386.8	408.1	456.5	514.7	540.5
155°	400.3	417.6	461.2	498.9	517.1
157.5°	416.6	431.4	460.2	492.8	503.6
160°	422.9	435.4	464.1	484.9	492.6
162.5°	433.1	444.0	462.5	482.5	487.1
165°	442.5	449.2	467.1	474.1	480.8
167.5°	454.1	458.5	465.9	473.5	473.7
170°	457.2	460.1	469.0	468.1	472.9
172.5°	462.7	464.9	466.7	468.8	465.9
175°	468.0	466.1	468.0	464.1	463.1
177.5°	467.1	467.1	465.5	463.8	460.0
180°	463.1	463.1	463.1	463.1	463.1

(END OF REPORT)