

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: P518568

Luminaire Tested: **SQ4-BB-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

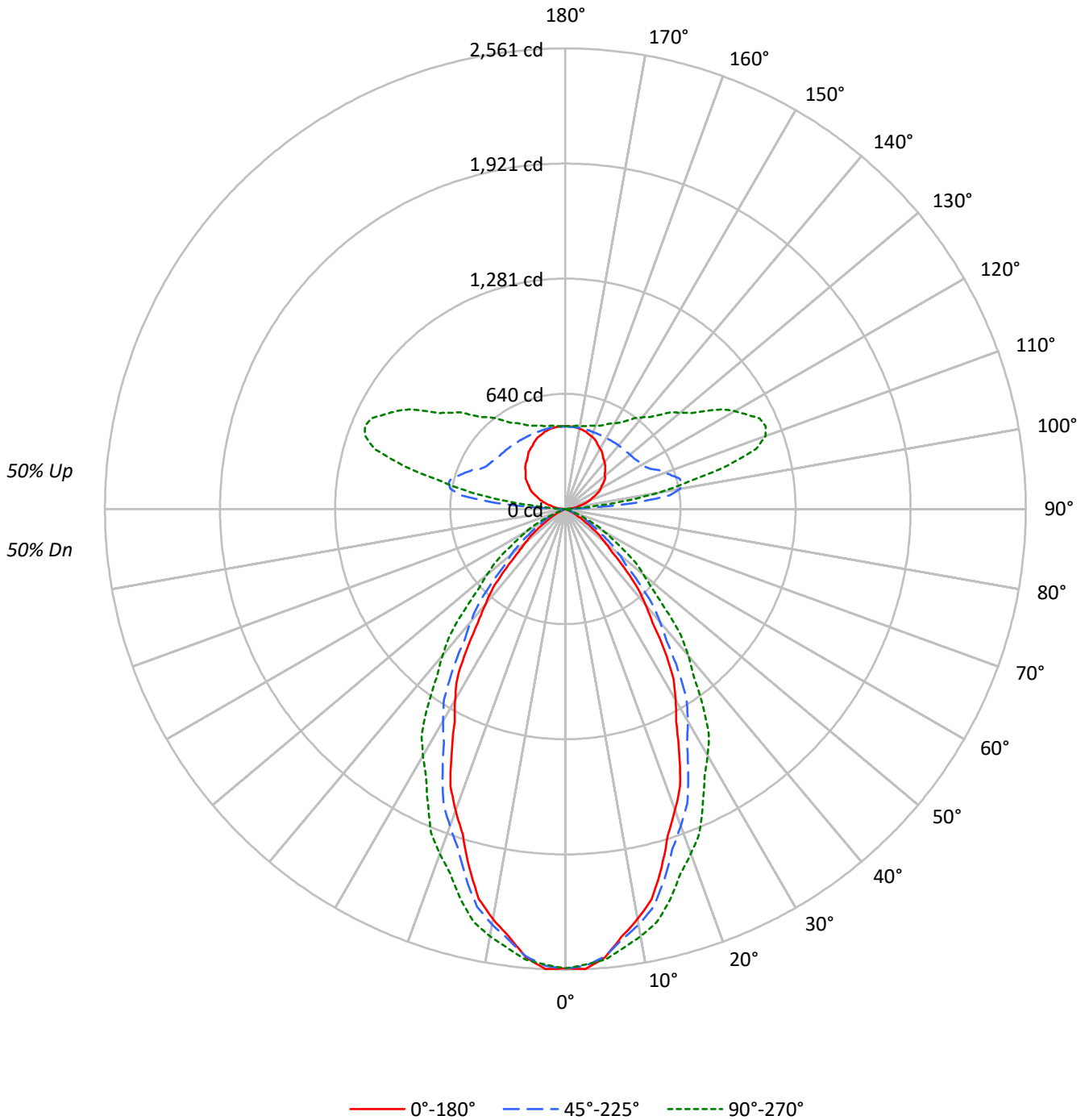
Lumens per Lamp: N/A
Luminaire Lumens: 6042.6 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 62.1
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	57	57	57	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	51	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°	23571	23571	23571
5°	23192	23134	23306
10°	21699	21989	22603
15°	19727	20353	21486
20°	17511	18421	20035
25°	15250	16458	18407
30°	13062	14497	16868
35°	10831	12306	15007
40°	8321	9840	12787
45°	6015	7450	10290
50°	4098	5553	8161
55°	2664	4017	6342
60°	1528	2829	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°	233.2	3.9
10°-20°	596.2	9.9
20°-30°	746.4	12.4
30°-40°	689.5	11.4
40°-50°	463.3	7.7
50°-60°	239.3	4.0
60°-70°	74.9	1.2
70°-80°	4.7	0.1
80°-90°	1.3	0.0
90°-100°	216.8	3.6
100°-110°	596.3	9.9
110°-120°	615.5	10.2
120°-130°	493.1	8.2
130°-140°	387.3	6.4
140°-150°	296.8	4.9
150°-160°	213.4	3.5
160°-170°	130.5	2.2
170°-180°	44.0	0.7
0°-30°	1575.8	26.1
0°-40°	2265.3	37.5
0°-60°	2967.9	49.1
0°-90°	3048.8	50.5
90°-120°	1428.6	23.6
90°-150°	2605.9	43.1
90°-180°	2994.0	49.5
0°-180°	6042.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2504	2479	2498	2507	2516	232
15°	2065	2058	2131	2202	2250	575
25°	1498	1510	1617	1727	1808	687
35°	962	986	1093	1221	1332	596
45°	461	489	571	682	789	362
55°	166	193	250	321	394	155
65°	18	36	79	95	106	31
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	1	4	7	9	9	2
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.8	2554.8	2554.8	2554.8	2554.8
2.5°	2560.7	2536.5	2542.9	2542.8	2536.0
5°	2504.1	2478.7	2497.9	2506.8	2516.5
7.5°	2398.3	2378.5	2415.4	2443.0	2463.1
10°	2316.2	2299.3	2347.1	2384.8	2412.6
12.5°	2221.3	2208.3	2266.0	2317.8	2353.3
15°	2065.3	2058.1	2130.8	2202.4	2249.5
17.5°	1898.2	1898.0	1981.0	2069.8	2126.6
20°	1783.5	1787.1	1876.2	1974.1	2040.6
22.5°	1668.8	1677.3	1772.4	1874.5	1950.6
25°	1498.0	1510.1	1616.7	1727.3	1808.2
27.5°	1333.9	1351.5	1463.6	1578.6	1677.2
30°	1226.1	1246.6	1360.8	1481.8	1583.3
32.5°	1120.3	1144.7	1256.0	1383.9	1487.4
35°	961.6	985.8	1092.6	1221.2	1332.4
37.5°	797.7	821.4	925.7	1052.3	1172.5
40°	690.9	717.5	817.0	939.6	1061.7
42.5°	594.0	620.6	714.1	834.7	950.0
45°	461.0	488.8	571.0	682.2	788.6
47.5°	350.8	381.0	453.1	553.7	650.6
50°	285.5	315.7	386.9	475.5	568.6
52.5°	233.1	262.4	326.5	410.1	495.4
55°	165.6	193.4	249.7	320.6	394.3
57.5°	114.5	138.4	188.9	248.0	305.8
60°	82.8	105.8	153.3	201.3	248.4
62.5°	55.1	76.2	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°	0.2	0.8	1.4	1.8	1.8
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)