

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: P844877

Luminaire Tested: **SQ4P-BB-125U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844877
REPORT IS A COMBINATION OF REPORTS P700106 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-125U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

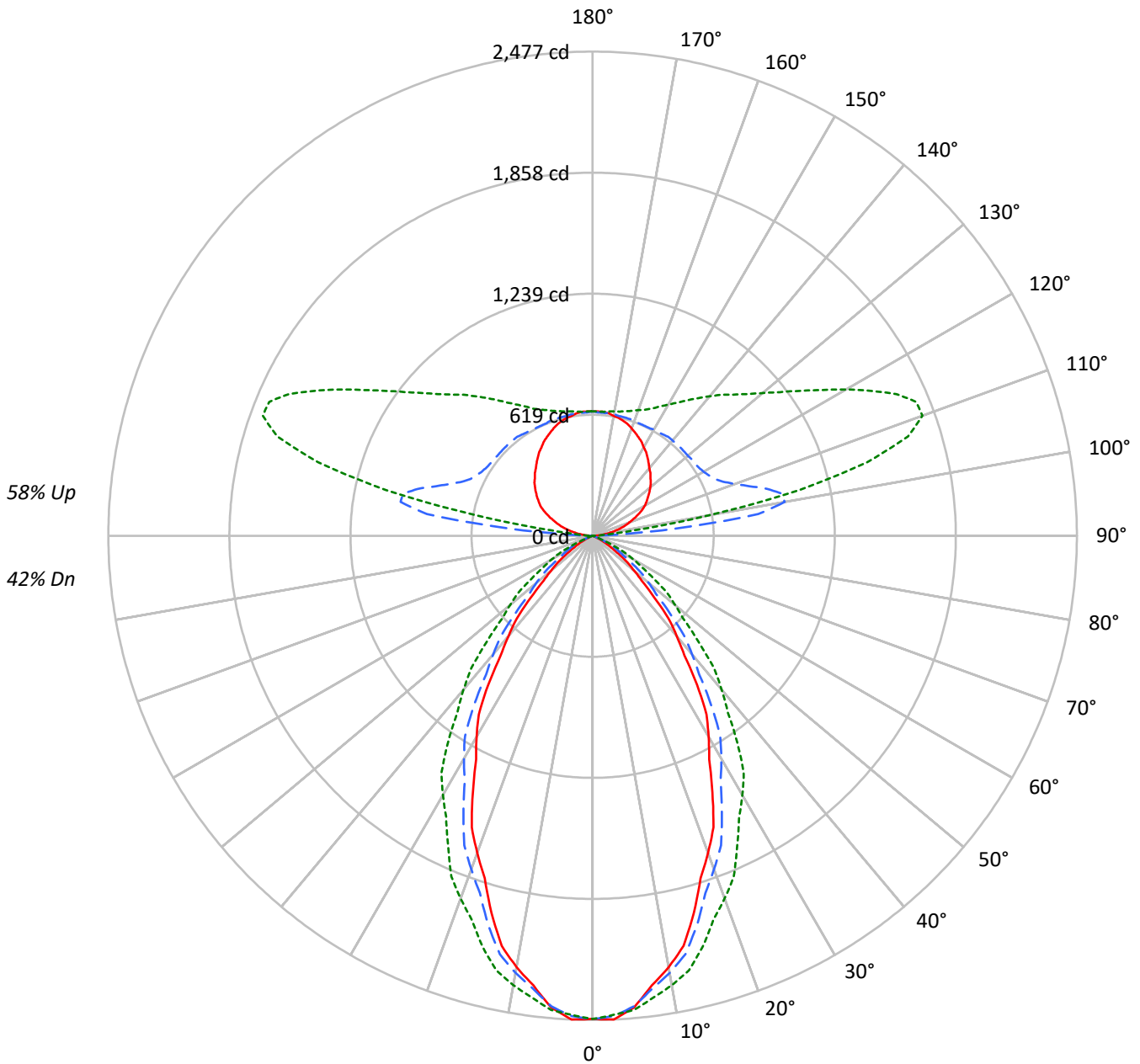
Lumens per Lamp: N/A
Luminaire Lumens: 7080.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42																			
1	97	94	90	87	89	86	83	81	71	69	68	58	56	55	45	44	44	38																			
2	90	84	78	74	82	77	72	69	64	61	58	52	50	49	42	40	39	34																			
3	83	75	69	63	76	69	64	59	58	54	51	48	45	43	38	37	35	31																			
4	77	67	60	55	70	62	56	52	53	48	45	44	41	38	35	33	32	28																			
5	71	61	54	48	65	56	50	45	48	43	40	40	37	34	33	30	29	25																			
6	66	55	48	43	60	51	45	40	44	39	35	37	33	31	30	28	26	23																			
7	61	50	43	38	56	47	41	36	40	35	32	34	30	28	28	26	24	21																			
8	57	46	39	34	53	43	37	32	37	32	29	31	28	25	26	24	22	20																			
9	54	42	36	31	49	40	34	29	34	30	26	29	26	23	24	22	20	18																			
10	50	39	33	28	46	37	31	27	32	27	24	27	24	21	23	21	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22804	22804	22804
5°	22437	22382	22548
10°	20992	21274	21868
15°	19085	19691	20787
20°	16942	17821	19382
25°	14753	15920	17809
30°	12638	14025	16318
35°	10477	11906	14517
40°	8050	9521	12370
45°	5821	7209	9954
50°	3964	5370	7896
55°	2578	3885	6135
60°	1478	2738	4436
65°	391	1672	2244
70°	197	518	642
75°	86	39	0
80°	58	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	3.2
10°-20°	576.8	8.1
20°-30°	722.1	10.2
30°-40°	667.0	9.4
40°-50°	448.2	6.3
50°-60°	231.5	3.3
60°-70°	72.5	1.0
70°-80°	4.6	0.1
80°-90°	1.6	0.0
90°-100°	253.3	3.6
100°-110°	881.3	12.4
110°-120°	853.7	12.1
120°-130°	669.7	9.5
130°-140°	530.1	7.5
140°-150°	409.1	5.8
150°-160°	293.2	4.1
160°-170°	179.4	2.5
170°-180°	60.7	0.9
0°-30°	1524.5	21.5
0°-40°	2191.6	31.0
0°-60°	2871.3	40.6
0°-90°	2950.0	41.7
90°-120°	1988.3	28.1
90°-150°	3597.1	50.8
90°-180°	4130.0	58.3
0°-180°	7080.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2423	2398	2417	2425	2435	225
15°	1998	1991	2062	2130	2176	557
25°	1449	1461	1564	1671	1749	664
35°	930	954	1057	1181	1289	576
45°	446	473	552	660	763	350
55°	160	187	242	310	381	150
65°	18	34	77	92	103	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	10	14	14	10	5	6
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2471.7	2471.7	2471.7	2471.7	2471.7
2.5°	2477.3	2454.0	2460.0	2460.0	2453.6
5°	2422.6	2398.1	2416.7	2425.1	2434.6
7.5°	2320.4	2301.1	2336.8	2363.3	2382.9
10°	2240.7	2224.5	2270.8	2307.1	2334.2
12.5°	2148.9	2136.2	2192.3	2242.4	2276.7
15°	1998.1	1991.2	2061.5	2130.5	2176.3
17.5°	1836.6	1836.3	1916.4	2002.5	2057.4
20°	1725.6	1729.1	1815.1	1910.0	1974.1
22.5°	1614.5	1622.7	1714.7	1813.6	1887.2
25°	1449.2	1460.8	1563.9	1671.2	1749.4
27.5°	1290.5	1307.6	1416.2	1527.2	1622.7
30°	1186.3	1206.1	1316.5	1433.5	1531.7
32.5°	1083.7	1107.5	1215.0	1339.0	1438.9
35°	930.2	953.7	1057.1	1181.4	1288.9
37.5°	771.8	794.6	895.6	1018.2	1134.4
40°	668.4	694.1	790.5	909.1	1027.1
42.5°	574.7	600.4	690.9	807.5	919.1
45°	446.1	472.9	552.5	660.0	762.9
47.5°	339.5	368.4	438.3	535.8	629.4
50°	276.2	305.4	374.1	459.9	550.1
52.5°	225.5	253.9	315.9	396.6	479.2
55°	160.3	187.1	241.5	310.2	381.4
57.5°	110.7	134.0	182.7	239.8	295.9
60°	80.1	102.4	148.4	194.6	240.4
62.5°	53.3	73.6	118.6	154.3	184.9
65°	17.9	34.3	76.6	92.3	102.8
67.5°	9.2	10.9	40.0	42.5	46.0
70°	7.3	7.3	19.2	20.3	23.8
72.5°	5.2	5.2	7.5	9.8	10.6
75°	2.4	2.4	1.1	0.0	0.0
77.5°	1.1	1.1	1.1	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.3	0.3	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°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)