

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: P844853

Luminaire Tested: **SQ4P-BB-0U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-0U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

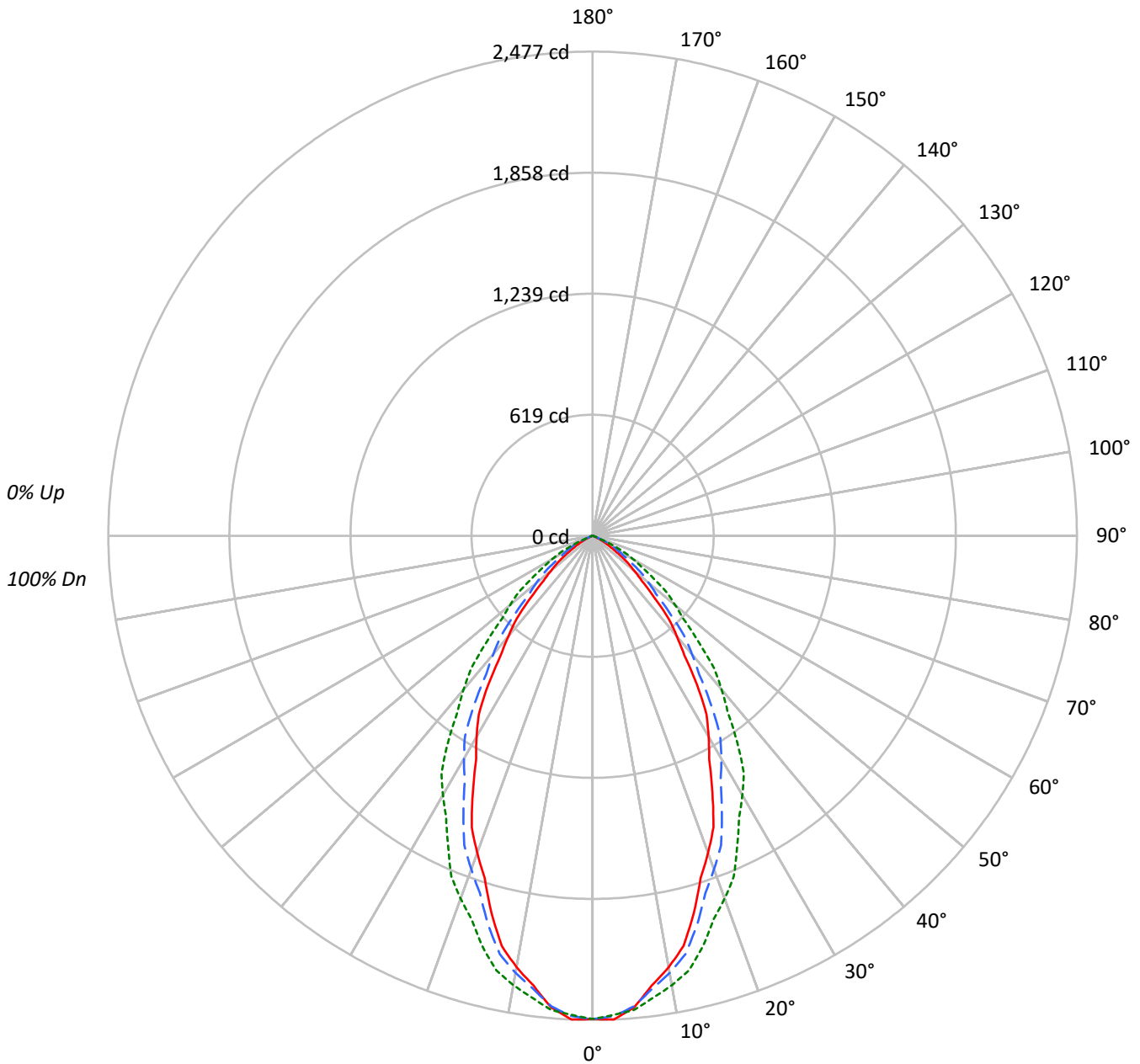
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.4 lumens
Efficiency: N/A
Efficacy: 64.4 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: Direct

Input Watts (W): 45.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74																			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67																			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51																			
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47																			
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44																			
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41																			

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	7.7
10°-20°	576.8	19.6
20°-30°	722.1	24.5
30°-40°	667.0	22.6
40°-50°	448.2	15.2
50°-60°	231.5	7.9
60°-70°	72.5	2.5
70°-80°	4.6	0.2
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1524.5	51.7
0°-40°	2191.6	74.3
0°-60°	2871.3	97.4
0°-90°	2948.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.4	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°	0	0	0	0	0	



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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°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)