

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: P844854

Luminaire Tested: **SQ4P-BB-0U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844854
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-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

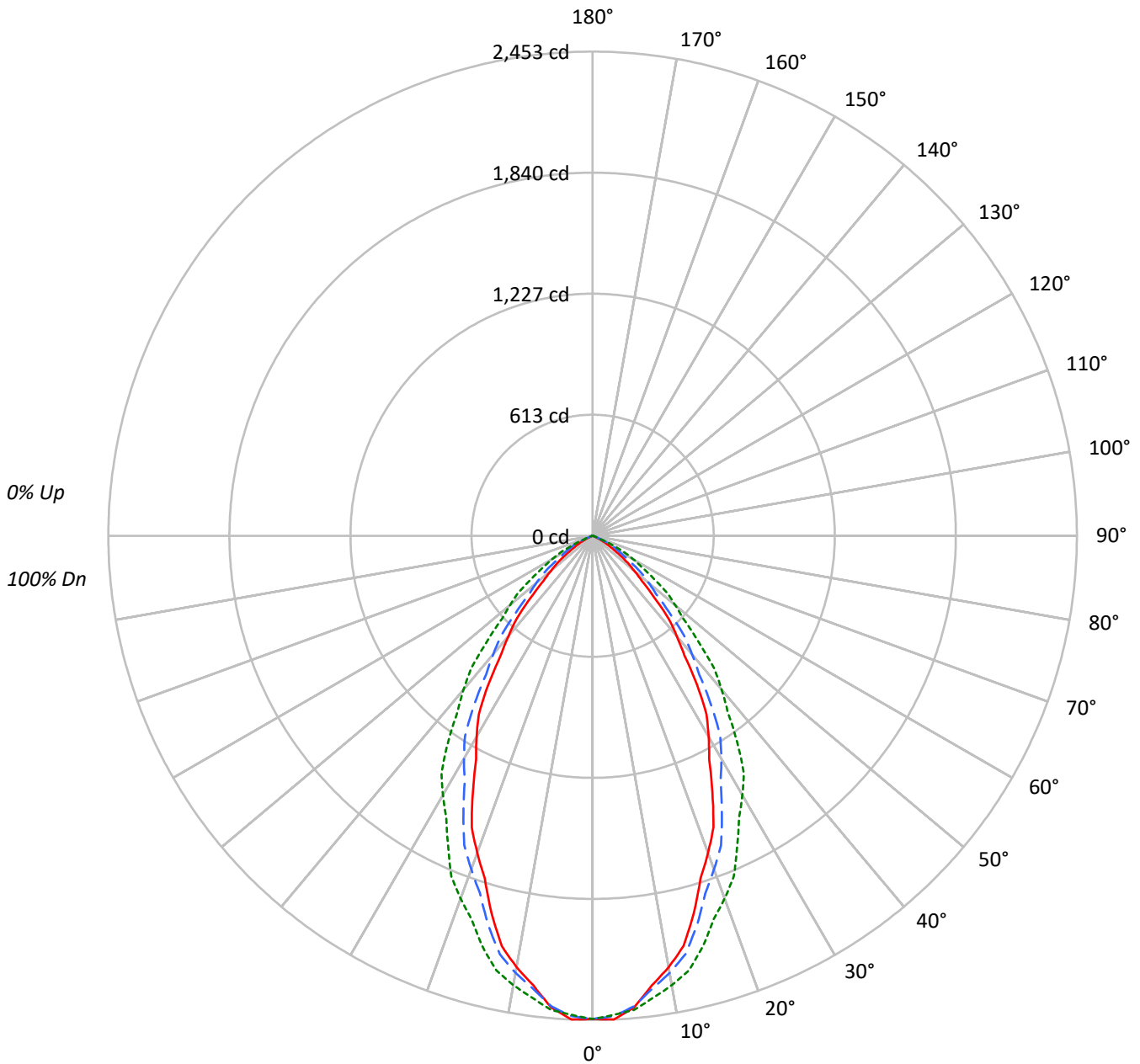
Lumens per Lamp: N/A
Luminaire Lumens: 2919.8 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844854

CATALOG NUMBER: SQ4P-BB-0U-125D-B40-1D-UNV

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	50	30	10
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°	22583	22583	22583
5°	22219	22164	22328
10°	20789	21067	21655
15°	18900	19500	20586
20°	16778	17648	19194
25°	14609	15767	17636
30°	12516	13889	16160
35°	10376	11791	14376
40°	7972	9428	12250
45°	5765	7138	9858
50°	3926	5318	7820
55°	2553	3848	6075
60°	1465	2711	4394
65°	386	1657	2222
70°	197	513	634
75°	86	39	0
80°	58	0	0
85°	0	0	0



TEST NUMBER: P844854

CATALOG NUMBER: SQ4P-BB-0U-125D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	7.7
10°-20°	571.2	19.6
20°-30°	715.1	24.5
30°-40°	660.5	22.6
40°-50°	443.8	15.2
50°-60°	229.3	7.9
60°-70°	71.8	2.5
70°-80°	4.5	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°	1509.7	51.7
0°-40°	2170.3	74.3
0°-60°	2843.4	97.4
0°-90°	2919.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2399	2375	2393	2402	2411	222
15°	1979	1972	2042	2110	2155	551
25°	1435	1447	1549	1655	1732	658
35°	921	944	1047	1170	1276	571
45°	442	468	547	654	756	347
55°	159	185	239	307	378	148
65°	18	34	76	91	102	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°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2453.3	2430.2	2436.1	2436.1	2429.7
5°	2399.1	2374.8	2393.2	2401.5	2410.9
7.5°	2297.8	2278.8	2314.1	2340.4	2359.8
10°	2219.0	2202.9	2248.7	2284.7	2311.5
12.5°	2128.1	2115.5	2171.0	2220.6	2254.6
15°	1978.7	1971.8	2041.5	2109.8	2155.2
17.5°	1818.7	1818.4	1897.8	1983.1	2037.5
20°	1708.8	1712.3	1797.5	1891.4	1954.9
22.5°	1598.9	1606.9	1698.1	1796.0	1868.8
25°	1435.1	1446.6	1548.8	1655.0	1732.4
27.5°	1278.0	1294.9	1402.4	1512.3	1606.9
30°	1174.8	1194.4	1303.7	1419.6	1516.9
32.5°	1073.1	1096.8	1203.2	1326.0	1424.9
35°	921.2	944.4	1046.9	1169.9	1276.4
37.5°	764.3	786.9	886.9	1008.3	1123.3
40°	661.9	687.4	782.8	900.3	1017.1
42.5°	569.1	594.6	684.2	799.7	910.1
45°	441.8	468.3	547.1	653.6	755.5
47.5°	336.2	364.9	434.0	530.6	623.3
50°	273.5	302.4	370.5	455.5	544.8
52.5°	223.3	251.5	312.8	392.8	474.6
55°	158.7	185.3	239.2	307.2	377.7
57.5°	109.6	132.7	180.9	237.5	293.0
60°	79.4	101.4	146.9	192.7	238.1
62.5°	52.8	72.9	117.5	152.8	183.2
65°	17.7	34.0	75.9	91.4	101.8
67.5°	9.1	10.8	39.6	42.1	45.5
70°	7.3	7.3	19.0	20.1	23.5
72.5°	5.1	5.1	7.5	9.7	10.5
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)