

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: P518662

Luminaire Tested: **SQ4-BB-0U-125D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518662  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

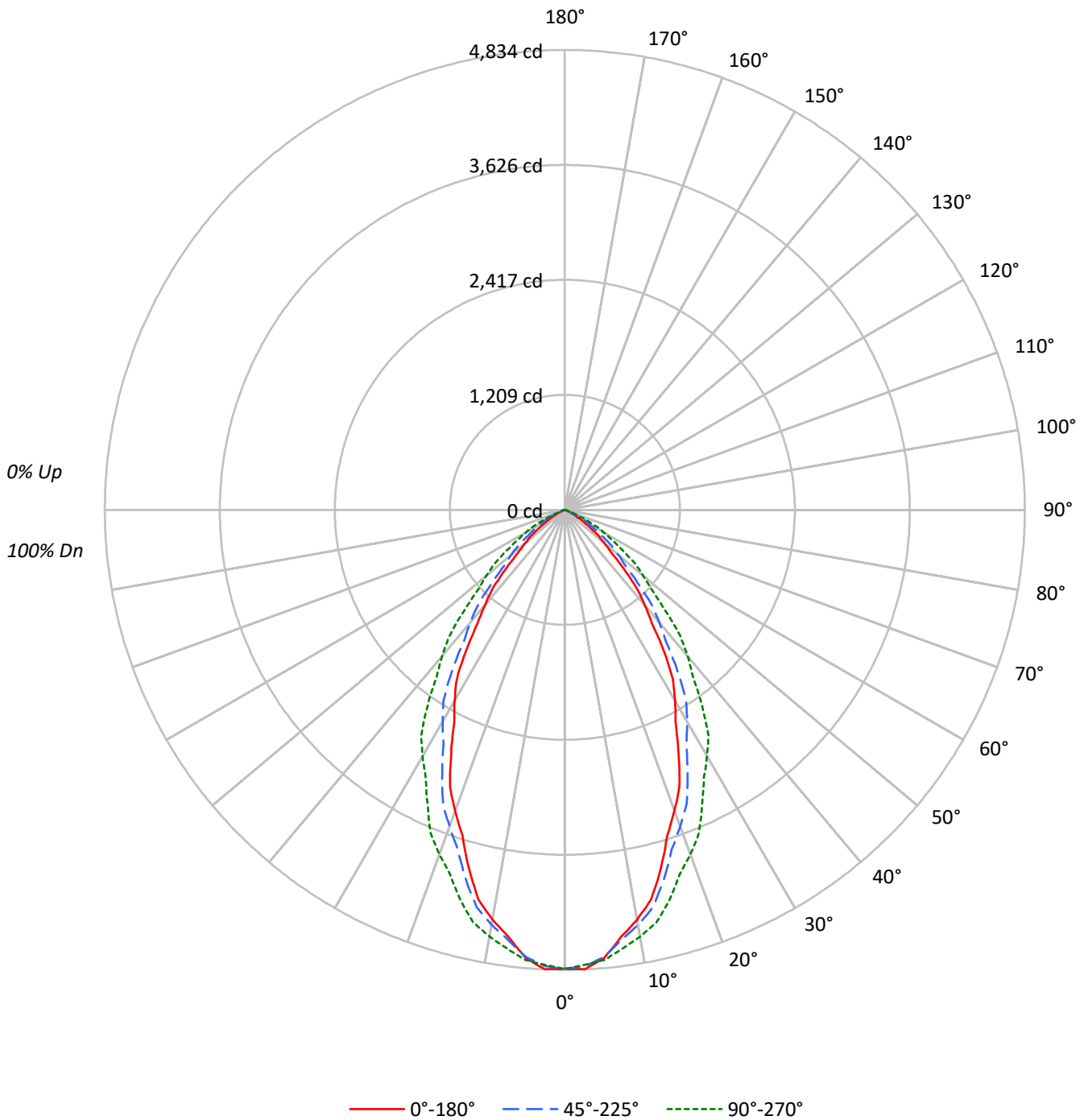
Lumens per Lamp: N/A  
Luminaire Lumens: 5753.3 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.1  
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	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°	22249	22249	22249
5°	21890	21836	21998
10°	20482	20756	21334
15°	18620	19211	20281
20°	16529	17388	18911
25°	14394	15534	17375
30°	12329	13684	15921
35°	10223	11616	14165
40°	7854	9288	12070
45°	5678	7033	9711
50°	3868	5241	7703
55°	2515	3791	5986
60°	1442	2669	4327
65°	382	1630	2191
70°	189	503	630
75°	84	41	0
80°	61	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.1	7.7
10°-20°	1125.6	19.6
20°-30°	1409.1	24.5
30°-40°	1301.6	22.6
40°-50°	874.6	15.2
50°-60°	451.7	7.9
60°-70°	141.5	2.5
70°-80°	8.9	0.2
80°-90°	0.2	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°	2974.8	51.7
0°-40°	4276.4	74.3
0°-60°	5602.7	97.4
0°-90°	5753.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5753.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4823	4823	4823	4823	4823	
5°	4727	4679	4716	4732	4750	438
15°	3899	3885	4022	4158	4246	1086
25°	2828	2851	3052	3261	3414	1296
35°	1815	1861	2063	2305	2515	1125
45°	870	923	1078	1288	1489	684
55°	313	365	471	605	744	292
65°	35	67	149	180	201	59
75°	5	5	2	0	0	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4822.9	4822.9	4822.9	4822.9	4822.9
2.5°	4834.1	4788.4	4800.5	4800.2	4787.4
5°	4727.2	4679.3	4715.5	4732.3	4750.5
7.5°	4527.5	4490.0	4559.7	4611.9	4649.7
10°	4372.5	4340.6	4430.9	4502.1	4554.5
12.5°	4193.3	4168.7	4277.8	4375.5	4442.5
15°	3898.9	3885.2	4022.5	4157.6	4246.5
17.5°	3583.4	3583.0	3739.8	3907.4	4014.6
20°	3366.9	3373.7	3541.9	3726.7	3852.2
22.5°	3150.4	3166.3	3345.9	3538.6	3682.4
25°	2827.9	2850.7	3051.9	3260.7	3413.6
27.5°	2518.1	2551.4	2763.0	2980.1	3166.2
30°	2314.6	2353.4	2568.9	2797.3	2988.9
32.5°	2114.9	2161.0	2371.1	2612.6	2807.8
35°	1815.3	1860.9	2062.6	2305.4	2515.3
37.5°	1505.9	1550.6	1747.6	1986.6	2213.3
40°	1304.3	1354.5	1542.3	1773.9	2004.3
42.5°	1121.4	1171.6	1348.2	1575.7	1793.3
45°	870.3	922.8	1078.0	1287.9	1488.6
47.5°	662.2	719.2	855.4	1045.3	1228.2
50°	539.0	596.0	730.3	897.6	1073.3
52.5°	440.1	495.3	616.4	774.1	935.2
55°	312.7	365.1	471.3	605.1	744.3
57.5°	216.1	261.2	356.5	468.2	577.2
60°	156.3	199.7	289.3	380.0	469.0
62.5°	104.1	143.8	231.5	300.9	360.7
65°	35.0	66.9	149.3	180.1	200.7
67.5°	17.7	21.4	78.4	82.8	89.6
70°	14.0	14.0	37.3	39.8	46.7
72.5°	10.3	10.3	14.9	19.2	20.5
75°	4.7	4.7	2.3	0.0	0.0
77.5°	2.3	2.3	1.9	0.0	0.0
80°	2.3	2.3	0.0	0.0	0.0
82.5°	0.5	0.5	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

(END OF REPORT)