

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: P518681

Luminaire Tested: **SQ4-BB-0U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518681  
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-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3951.9 lumens  
Efficiency: N/A  
Efficacy: 56.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

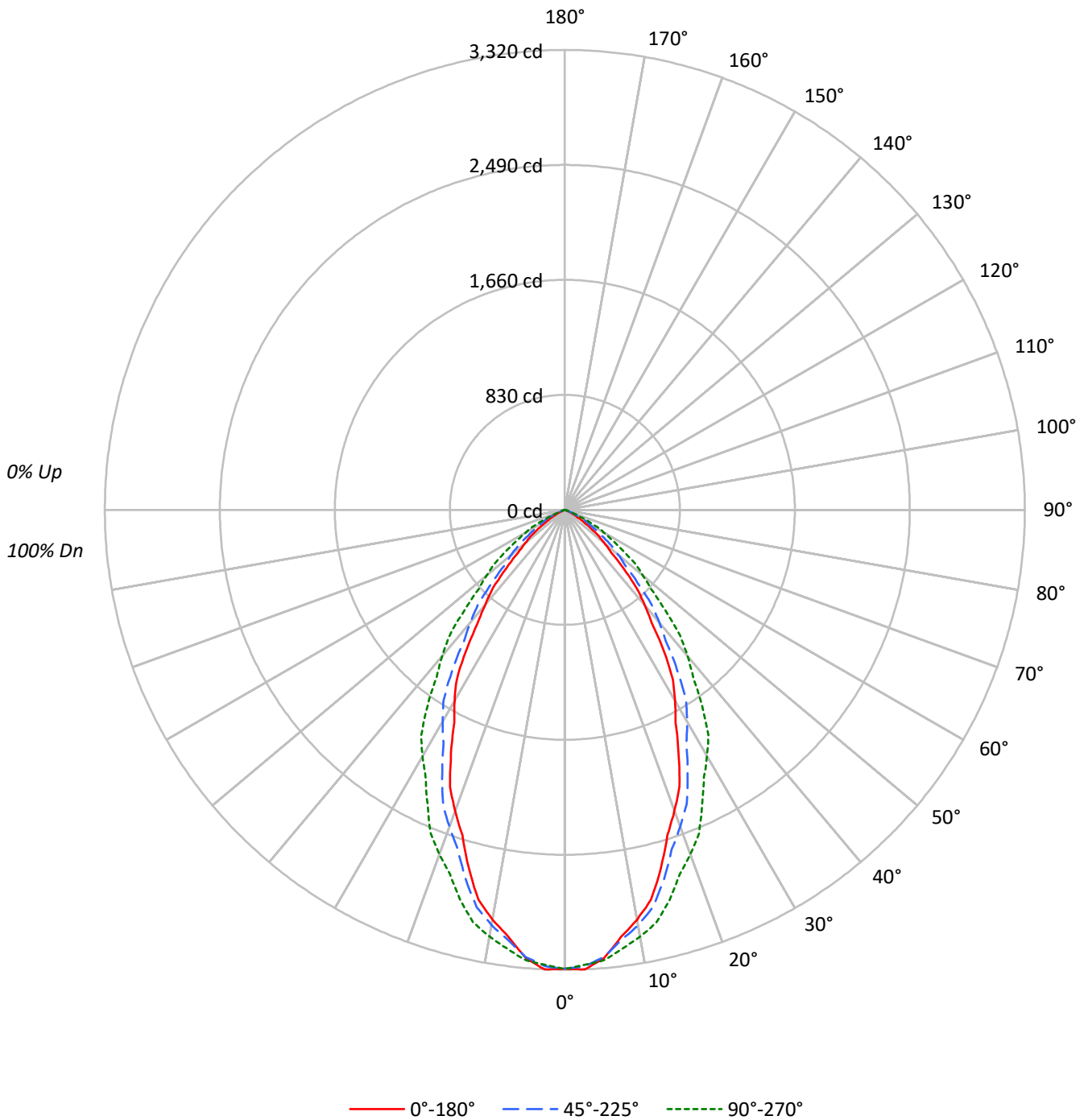
Input Watts (W): 69.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	20376	20376	20376
5°	20049	19999	20147
10°	18759	19009	19540
15°	17054	17595	18575
20°	15138	15925	17320
25°	13183	14228	15913
30°	11292	12533	14582
35°	9363	10638	12973
40°	7193	8506	11054
45°	5200	6441	8894
50°	3542	4801	7055
55°	2303	3471	5483
60°	1321	2444	3962
65°	349	1493	2006
70°	173	460	577
75°	76	38	0
80°	57	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.3	7.7
10°-20°	773.2	19.6
20°-30°	967.9	24.5
30°-40°	894.0	22.6
40°-50°	600.7	15.2
50°-60°	310.3	7.9
60°-70°	97.2	2.5
70°-80°	6.2	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°	2043.4	51.7
0°-40°	2937.4	74.3
0°-60°	3848.5	97.4
0°-90°	3951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3951.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3313	3313	3313	3313	3313	
5°	3247	3214	3239	3251	3263	301
15°	2678	2669	2763	2856	2917	746
25°	1942	1958	2096	2240	2345	891
35°	1247	1278	1417	1584	1728	772
45°	598	634	740	885	1022	470
55°	215	251	324	416	511	200
65°	24	46	103	124	138	41
75°	3	3	2	0	0	5
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°	3312.8	3312.8	3312.8	3312.8	3312.8
2.5°	3320.5	3289.2	3297.4	3297.2	3288.5
5°	3247.1	3214.2	3239.1	3250.6	3263.1
7.5°	3109.9	3084.2	3132.0	3167.9	3193.9
10°	3003.5	2981.6	3043.6	3092.5	3128.5
12.5°	2880.4	2863.5	2938.4	3005.5	3051.6
15°	2678.1	2668.7	2763.1	2855.8	2917.0
17.5°	2461.5	2461.1	2568.8	2684.0	2757.6
20°	2312.7	2317.4	2432.9	2559.9	2646.1
22.5°	2164.0	2175.0	2298.3	2430.7	2529.4
25°	1942.5	1958.2	2096.4	2239.8	2344.8
27.5°	1729.7	1752.5	1897.9	2047.0	2174.9
30°	1589.9	1616.5	1764.6	1921.4	2053.1
32.5°	1452.7	1484.4	1628.7	1794.6	1928.7
35°	1246.9	1278.3	1416.8	1583.6	1727.7
37.5°	1034.4	1065.1	1200.4	1364.6	1520.3
40°	895.9	930.4	1059.4	1218.5	1376.7
42.5°	770.3	804.7	926.1	1082.3	1231.9
45°	597.8	633.9	740.5	884.6	1022.5
47.5°	454.9	494.0	587.6	718.0	843.7
50°	370.2	409.4	501.7	616.6	737.3
52.5°	302.3	340.2	423.4	531.7	642.4
55°	214.8	250.8	323.7	415.7	511.3
57.5°	148.4	179.4	244.9	321.6	396.5
60°	107.4	137.2	198.7	261.0	322.1
62.5°	71.5	98.7	159.0	206.7	247.8
65°	24.0	46.0	102.6	123.7	137.8
67.5°	12.2	14.7	53.9	56.8	61.5
70°	9.6	9.6	25.6	27.4	32.1
72.5°	7.1	7.1	10.3	13.2	14.1
75°	3.2	3.2	1.6	0.0	0.0
77.5°	1.6	1.6	1.3	0.0	0.0
80°	1.6	1.6	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

(END OF REPORT)