

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

Brand: CORELITE

Report Number: P521171

Luminaire Tested: SQ4-BB-0U-125D-92765-1D-UNV-STD-W-4\_2700K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521171  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5-5-2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-125D-92765-1D-UNV-STD-W-4\_2700K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3086.4 lumens  
Efficiency: N/A  
Efficacy: 55.5 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

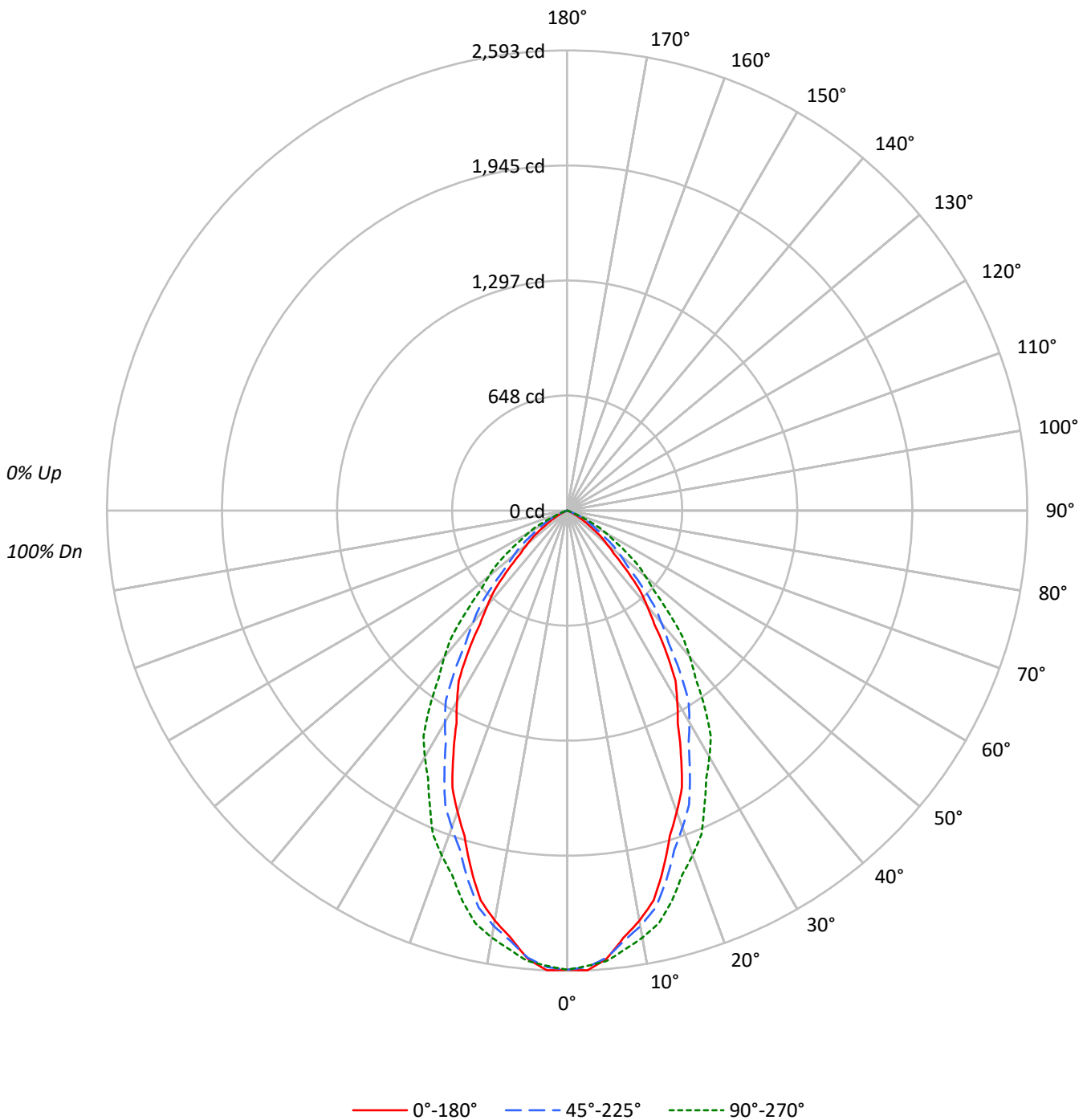
Input Watts (W): 55.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	23870	23870	23870
5°	23486	23429	23602
10°	21976	22269	22890
15°	19978	20612	21760
20°	17734	18656	20290
25°	15443	16667	18642
30°	13228	14682	17082
35°	10968	12463	15197
40°	8427	9965	12950
45°	6092	7546	10420
50°	4150	5624	8265
55°	2698	4066	6423
60°	1548	2864	4643
65°	410	1749	2349
70°	202	540	674
75°	89	46	0
80°	69	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10420 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	7.7
10°-20°	603.8	19.6
20°-30°	755.9	24.5
30°-40°	698.2	22.6
40°-50°	469.2	15.2
50°-60°	242.3	7.9
60°-70°	75.9	2.5
70°-80°	4.8	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°	1595.8	51.7
0°-40°	2294.1	74.3
0°-60°	3005.6	97.4
0°-90°	3086.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2587	2587	2587	2587	2587	
5°	2536	2510	2530	2539	2548	235
15°	2092	2084	2158	2230	2278	583
25°	1517	1529	1637	1749	1831	695
35°	974	998	1106	1237	1349	603
45°	467	495	578	691	799	367
55°	168	196	253	325	399	157
65°	19	36	80	97	108	32
75°	2	2	1	0	0	4
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°	2587.2	2587.2	2587.2	2587.2	2587.2
2.5°	2593.2	2568.8	2575.2	2575.1	2568.2
5°	2535.9	2510.2	2529.7	2538.6	2548.4
7.5°	2428.8	2408.7	2446.0	2474.0	2494.4
10°	2345.7	2328.5	2377.0	2415.1	2443.3
12.5°	2249.5	2236.3	2294.8	2347.2	2383.2
15°	2091.6	2084.2	2157.9	2230.3	2278.1
17.5°	1922.3	1922.1	2006.2	2096.1	2153.7
20°	1806.2	1809.9	1900.1	1999.2	2066.5
22.5°	1690.0	1698.6	1794.9	1898.3	1975.4
25°	1517.0	1529.3	1637.2	1749.2	1831.2
27.5°	1350.8	1368.7	1482.2	1598.7	1698.5
30°	1241.7	1262.5	1378.1	1500.6	1603.4
32.5°	1134.5	1159.3	1272.0	1401.5	1506.3
35°	973.8	998.3	1106.5	1236.7	1349.3
37.5°	807.8	831.8	937.5	1065.7	1187.3
40°	699.7	726.6	827.4	951.6	1075.2
42.5°	601.6	628.5	723.2	845.3	962.0
45°	466.9	495.0	578.3	690.9	798.6
47.5°	355.2	385.8	458.9	560.7	658.9
50°	289.1	319.7	391.8	481.5	575.8
52.5°	236.1	265.7	330.7	415.3	501.7
55°	167.7	195.9	252.8	324.6	399.3
57.5°	115.9	140.1	191.3	251.2	309.7
60°	83.9	107.1	155.2	203.9	251.6
62.5°	55.8	77.1	124.2	161.4	193.5
65°	18.8	35.9	80.1	96.6	107.6
67.5°	9.5	11.5	42.1	44.4	48.1
70°	7.5	7.5	20.0	21.4	25.0
72.5°	5.5	5.5	8.0	10.3	11.0
75°	2.5	2.5	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	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)