

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: P521146

Luminaire Tested: SQ4-BB-0U-075D-92765-1D-UNV-STD-W-4\_3000K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521146  
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-075D-92765-1D-UNV-STD-W-4\_3000K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1892.8 lumens  
Efficiency: N/A  
Efficacy: 59.3 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

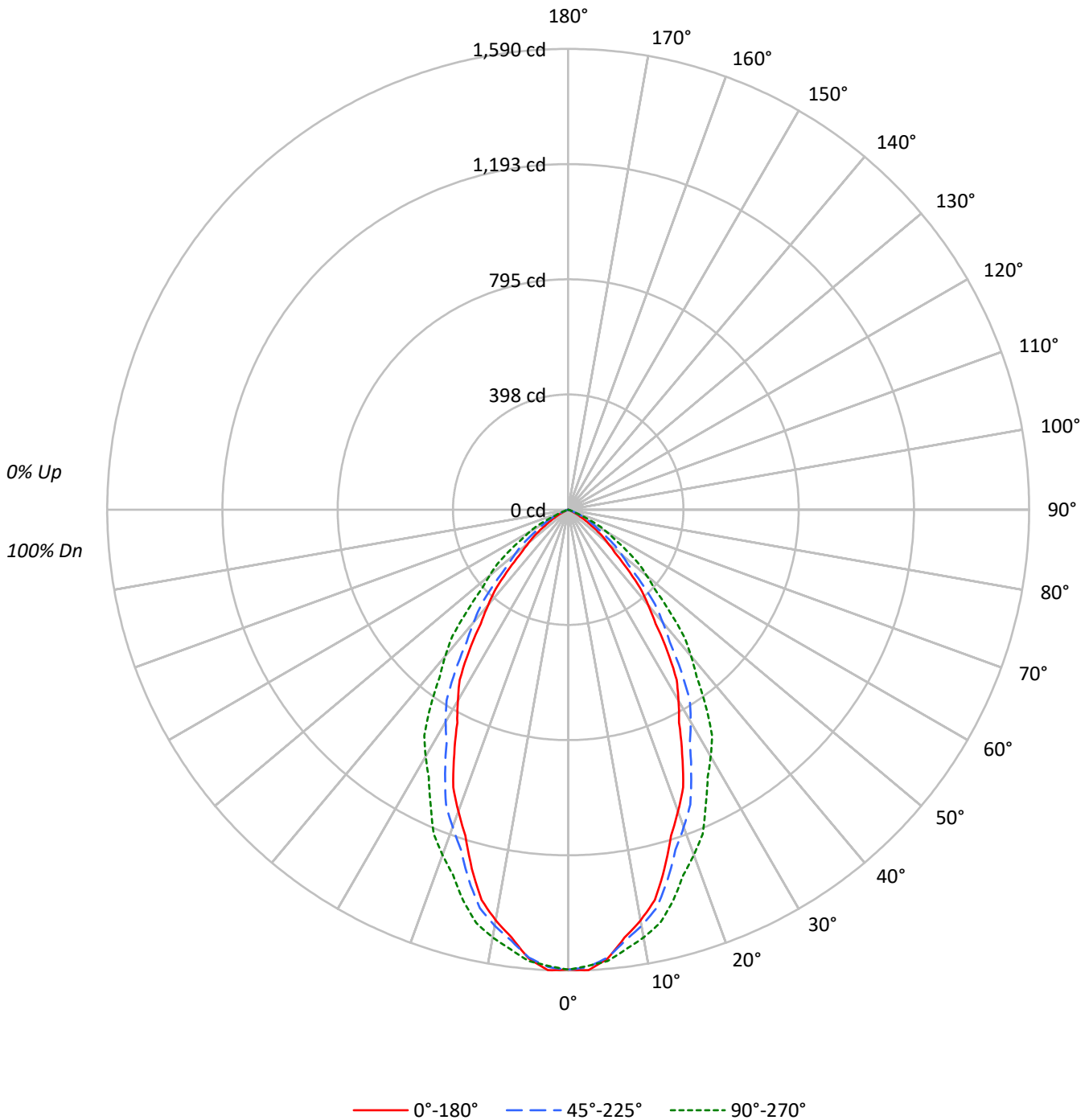
Input Watts (W): 31.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	14639	14639	14639
5°	14404	14368	14475
10°	13478	13657	14038
15°	12252	12641	13345
20°	10876	11441	12444
25°	9471	10222	11433
30°	8113	9004	10477
35°	6726	7643	9320
40°	5168	6111	7942
45°	3736	4628	6391
50°	2545	3449	5068
55°	1655	2495	3939
60°	948	1757	2847
65°	251	1072	1441
70°	124	332	415
75°	53	29	0
80°	43	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6391 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	7.7
10°-20°	370.3	19.6
20°-30°	463.6	24.5
30°-40°	428.2	22.6
40°-50°	287.7	15.2
50°-60°	148.6	7.9
60°-70°	46.5	2.5
70°-80°	2.9	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°	978.7	51.7
0°-40°	1406.9	74.3
0°-60°	1843.3	97.4
0°-90°	1892.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1555	1540	1551	1557	1563	144
15°	1283	1278	1323	1368	1397	357
25°	930	938	1004	1073	1123	427
35°	597	612	679	758	828	370
45°	286	304	355	424	490	225
55°	103	120	155	199	245	96
65°	12	22	49	59	66	19
75°	2	2	1	0	0	2
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°	1586.7	1586.7	1586.7	1586.7	1586.7
2.5°	1590.4	1575.4	1579.4	1579.3	1575.1
5°	1555.3	1539.5	1551.4	1556.9	1562.9
7.5°	1489.5	1477.2	1500.1	1517.3	1529.8
10°	1438.6	1428.1	1457.8	1481.2	1498.4
12.5°	1379.6	1371.5	1407.4	1439.5	1461.6
15°	1282.7	1278.2	1323.4	1367.8	1397.1
17.5°	1179.0	1178.8	1230.4	1285.5	1320.8
20°	1107.7	1110.0	1165.3	1226.1	1267.4
22.5°	1036.5	1041.7	1100.8	1164.2	1211.5
25°	930.4	937.9	1004.1	1072.8	1123.1
27.5°	828.4	839.4	909.0	980.5	1041.7
30°	761.5	774.3	845.2	920.3	983.4
32.5°	695.8	711.0	780.1	859.5	923.8
35°	597.2	612.2	678.6	758.5	827.5
37.5°	495.4	510.2	575.0	653.6	728.2
40°	429.1	445.6	507.4	583.6	659.4
42.5°	368.9	385.4	443.5	518.4	590.0
45°	286.3	303.6	354.7	423.7	489.8
47.5°	217.9	236.6	281.4	343.9	404.1
50°	177.3	196.1	240.3	295.3	353.1
52.5°	144.8	162.9	202.8	254.7	307.7
55°	102.9	120.1	155.1	199.1	244.9
57.5°	71.1	85.9	117.3	154.0	189.9
60°	51.4	65.7	95.2	125.0	154.3
62.5°	34.2	47.3	76.2	99.0	118.7
65°	11.5	22.0	49.1	59.3	66.0
67.5°	5.8	7.0	25.8	27.2	29.5
70°	4.6	4.6	12.3	13.1	15.4
72.5°	3.4	3.4	4.9	6.3	6.8
75°	1.5	1.5	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	0.0	0.0	0.0
82.5°	0.2	0.2	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)