

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: P521873

Luminaire Tested: SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4\_2700K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521873  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5-5-2021  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4\_2700K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 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: 2497.5 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

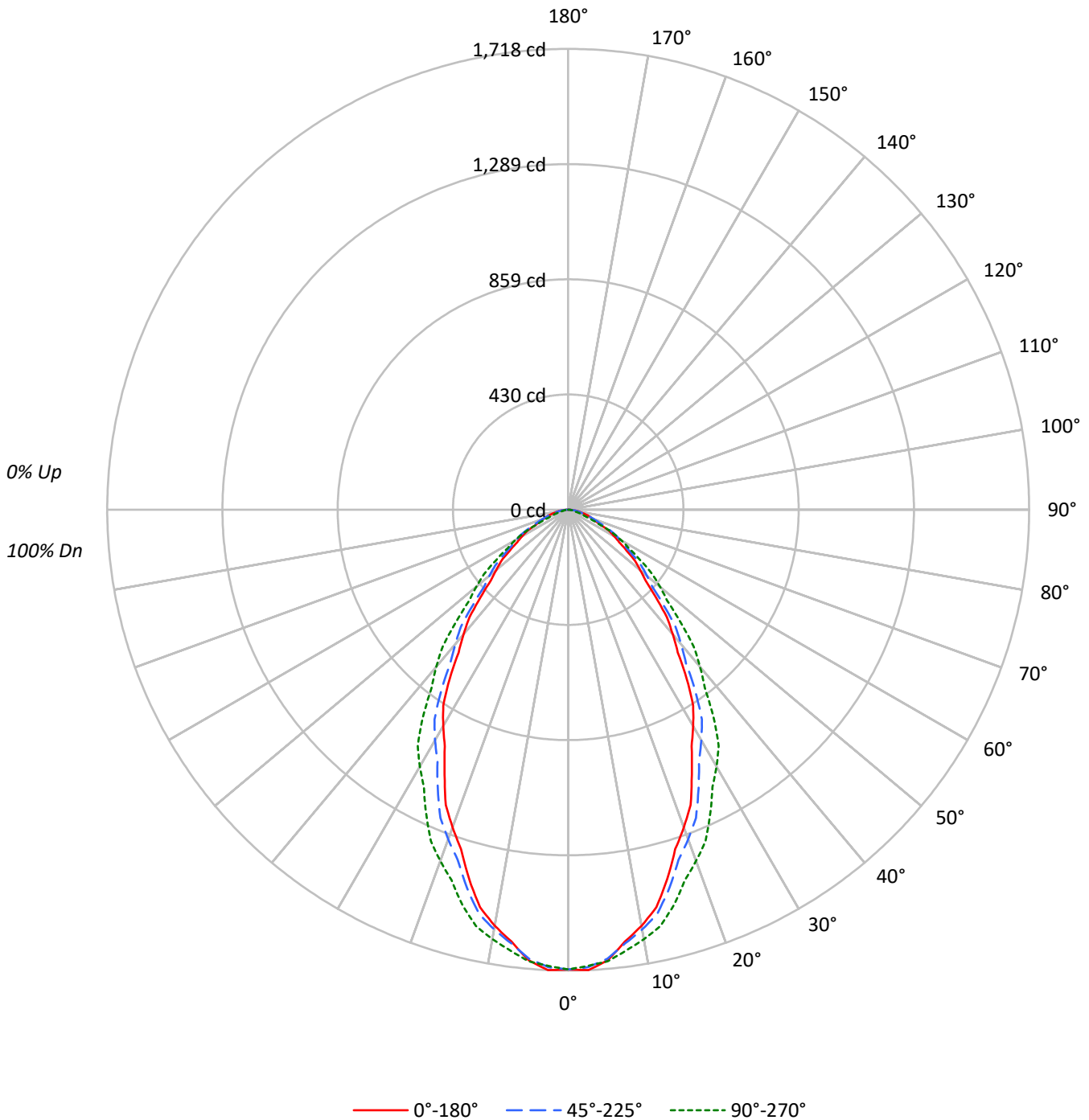
Input Watts (W): 31.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

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

	0°	45°	90°
0°	15813	15813	15813
5°	15616	15560	15651
10°	14754	14888	15233
15°	13620	13936	14561
20°	12368	12834	13683
25°	11093	11699	12747
30°	9919	10568	11777
35°	8674	9301	10630
40°	7301	7880	9203
45°	6025	6545	7684
50°	5031	5483	6402
55°	4271	4707	5287
60°	3650	4080	4218
65°	2906	3432	2725
70°	2576	2679	1664
75°	2385	2171	1020
80°	2200	1998	877
85°	1990	1831	720

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7684 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	6.3
10°-20°	408.9	16.4
20°-30°	529.7	21.2
30°-40°	518.7	20.8
40°-50°	397.0	15.9
50°-60°	264.5	10.6
60°-70°	144.4	5.8
70°-80°	60.1	2.4
80°-90°	17.0	0.7
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°	1095.8	43.9
0°-40°	1614.4	64.6
0°-60°	2276.0	91.1
0°-90°	2497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2497.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1686	1669	1680	1684	1690	157
15°	1426	1421	1459	1499	1524	398
25°	1090	1093	1149	1199	1252	501
35°	770	774	826	881	944	479
45°	462	471	502	540	589	360
55°	266	276	293	304	329	241
65°	133	144	157	137	125	138
75°	67	67	61	42	29	71
85°	19	19	17	11	7	21
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1713.9	1713.9	1713.9	1713.9	1713.9
2.5°	1718.2	1702.9	1706.7	1706.6	1701.9
5°	1686.1	1669.2	1680.1	1684.0	1689.9
7.5°	1623.6	1610.8	1630.6	1645.3	1657.2
10°	1574.8	1563.8	1589.1	1610.5	1626.0
12.5°	1518.3	1509.0	1540.4	1569.1	1589.3
15°	1425.9	1420.8	1459.0	1498.7	1524.4
17.5°	1327.1	1324.6	1368.5	1414.8	1447.7
20°	1259.7	1259.0	1307.1	1355.3	1393.6
22.5°	1191.7	1193.3	1243.9	1294.1	1337.6
25°	1089.7	1092.7	1149.2	1199.2	1252.2
27.5°	995.4	996.8	1055.1	1108.0	1164.5
30°	931.1	934.7	992.0	1046.7	1105.5
32.5°	866.7	870.9	927.0	983.6	1043.6
35°	770.1	773.8	825.8	881.3	943.8
37.5°	670.5	675.5	721.7	774.2	835.7
40°	606.2	613.5	654.3	703.8	764.1
42.5°	544.2	553.3	591.1	638.1	692.5
45°	461.8	470.6	501.6	539.6	588.9
47.5°	390.8	400.9	424.8	457.5	499.5
50°	350.5	360.0	382.0	406.3	446.0
52.5°	315.0	324.5	344.1	362.8	396.6
55°	265.5	276.5	292.6	303.6	328.7
57.5°	224.9	235.5	248.2	253.2	268.3
60°	197.8	209.6	221.1	220.5	228.6
62.5°	173.1	183.1	194.6	186.7	187.1
65°	133.1	144.1	157.2	137.3	124.8
67.5°	107.5	109.9	123.3	95.8	80.9
70°	95.5	95.5	99.3	74.2	61.7
72.5°	84.1	84.1	80.6	60.3	47.2
75°	66.9	66.9	60.9	41.8	28.6
77.5°	51.6	51.0	46.6	31.2	20.8
80°	41.4	41.4	37.6	24.6	16.5
82.5°	32.3	32.3	29.2	19.2	12.3
85°	18.8	18.8	17.3	11.2	6.8
87.5°	6.6	6.6	6.0	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)