

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: P521889

Luminaire Tested: SQ4-WB-0U-100D-92765-1D-UNV-STD-W-4\_4000K

Issue Date: 5-5-2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P521889  
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-100D-92765-1D-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3494.4 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

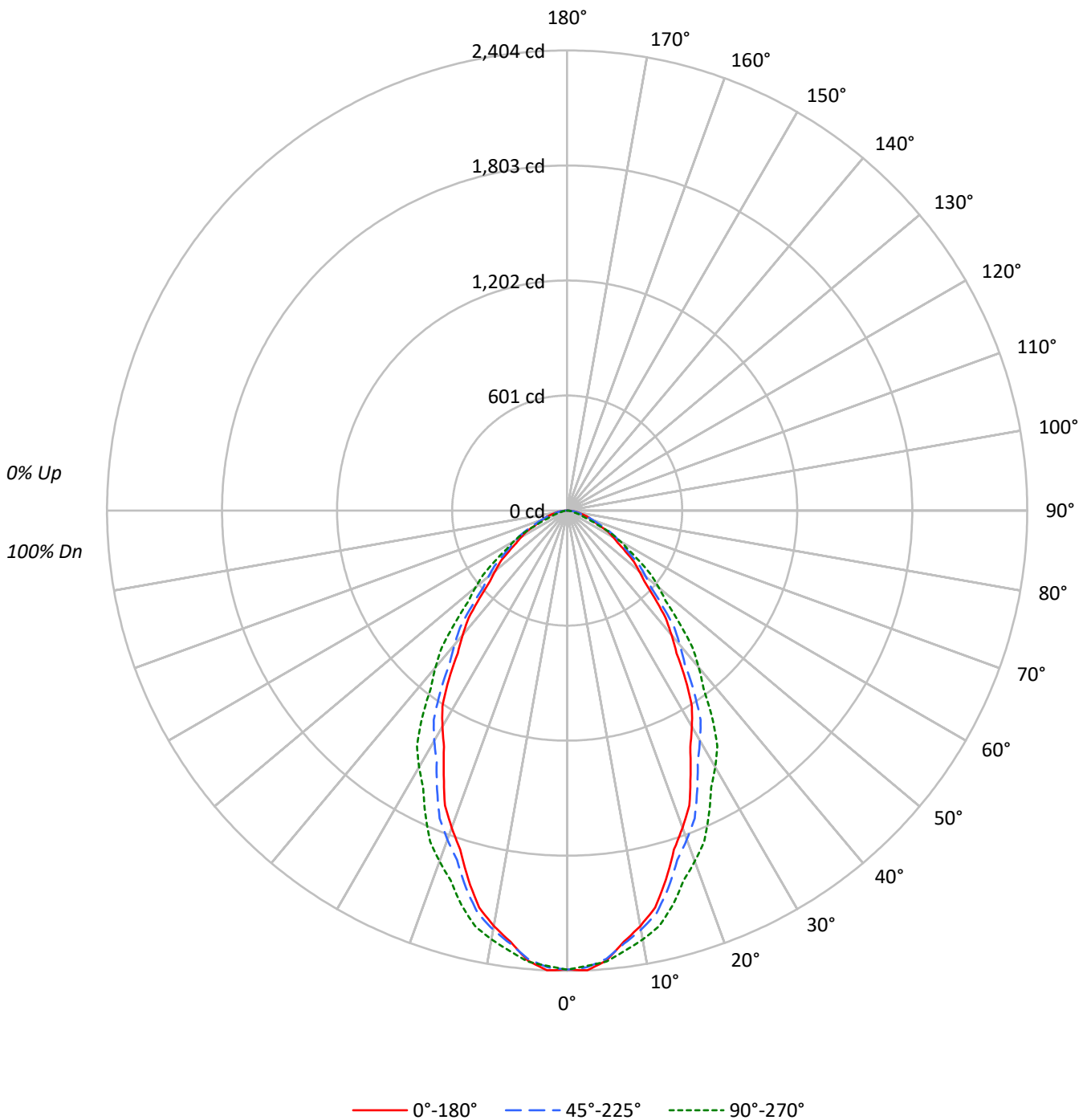
Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	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°	22125	22125	22125
5°	21849	21771	21898
10°	20643	20830	21313
15°	19057	19499	20373
20°	17305	17956	19144
25°	15521	16367	17835
30°	13878	14786	16479
35°	12136	13013	14874
40°	10214	11026	12876
45°	8430	9157	10750
50°	7037	7672	8957
55°	5974	6584	7396
60°	5106	5709	5903
65°	4065	4801	3814
70°	3604	3747	2328
75°	3337	3037	1426
80°	3076	2795	1227
85°	2784	2562	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10750 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	6.3
10°-20°	572.1	16.4
20°-30°	741.1	21.2
30°-40°	725.7	20.8
40°-50°	555.5	15.9
50°-60°	370.1	10.6
60°-70°	202.0	5.8
70°-80°	84.2	2.4
80°-90°	23.8	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°	1533.2	43.9
0°-40°	2258.8	64.6
0°-60°	3184.4	91.1
0°-90°	3494.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2359	2336	2351	2356	2364	219
15°	1995	1988	2041	2097	2133	557
25°	1525	1529	1608	1678	1752	701
35°	1078	1083	1155	1233	1321	670
45°	646	658	702	755	824	504
55°	371	387	409	425	460	337
65°	186	202	220	192	175	194
75°	94	94	85	58	40	100
85°	26	26	24	16	10	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2398.1	2398.1	2398.1	2398.1	2398.1
2.5°	2404.0	2382.6	2388.0	2387.8	2381.2
5°	2359.1	2335.5	2350.7	2356.2	2364.4
7.5°	2271.6	2253.7	2281.5	2302.1	2318.7
10°	2203.4	2188.0	2223.4	2253.4	2275.0
12.5°	2124.3	2111.3	2155.2	2195.4	2223.6
15°	1995.1	1987.9	2041.4	2096.9	2132.9
17.5°	1856.8	1853.3	1914.7	1979.5	2025.6
20°	1762.5	1761.5	1828.8	1896.3	1949.8
22.5°	1667.4	1669.7	1740.4	1810.6	1871.5
25°	1524.7	1528.8	1607.8	1677.9	1752.0
27.5°	1392.8	1394.6	1476.3	1550.3	1629.3
30°	1302.7	1307.8	1387.9	1464.5	1546.8
32.5°	1212.6	1218.6	1297.0	1376.1	1460.1
35°	1077.5	1082.6	1155.4	1233.1	1320.6
37.5°	938.2	945.2	1009.7	1083.2	1169.3
40°	848.1	858.4	915.5	984.7	1069.1
42.5°	761.4	774.2	827.1	892.8	968.9
45°	646.1	658.4	701.8	755.0	823.9
47.5°	546.7	560.9	594.3	640.1	698.9
50°	490.3	503.7	534.5	568.4	624.0
52.5°	440.7	454.1	481.5	507.6	555.0
55°	371.4	386.9	409.3	424.9	459.8
57.5°	314.6	329.4	347.2	354.2	375.4
60°	276.7	293.2	309.4	308.6	319.9
62.5°	242.2	256.2	272.3	261.2	261.8
65°	186.2	201.7	219.9	192.2	174.7
67.5°	150.5	153.8	172.6	134.0	113.2
70°	133.6	133.6	138.9	103.8	86.3
72.5°	117.6	117.6	112.8	84.4	66.1
75°	93.6	93.6	85.2	58.5	40.0
77.5°	72.2	71.4	65.2	43.7	29.0
80°	57.9	57.9	52.6	34.5	23.1
82.5°	45.2	45.2	40.8	26.9	17.3
85°	26.3	26.3	24.2	15.6	9.5
87.5°	9.3	9.3	8.4	5.0	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)