

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: P701268

Luminaire Tested: SQ4P-WB-0U-075D-B50-1D-UNV-

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P701268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4P-WB-0U-075D-B50-1D-UNV-
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

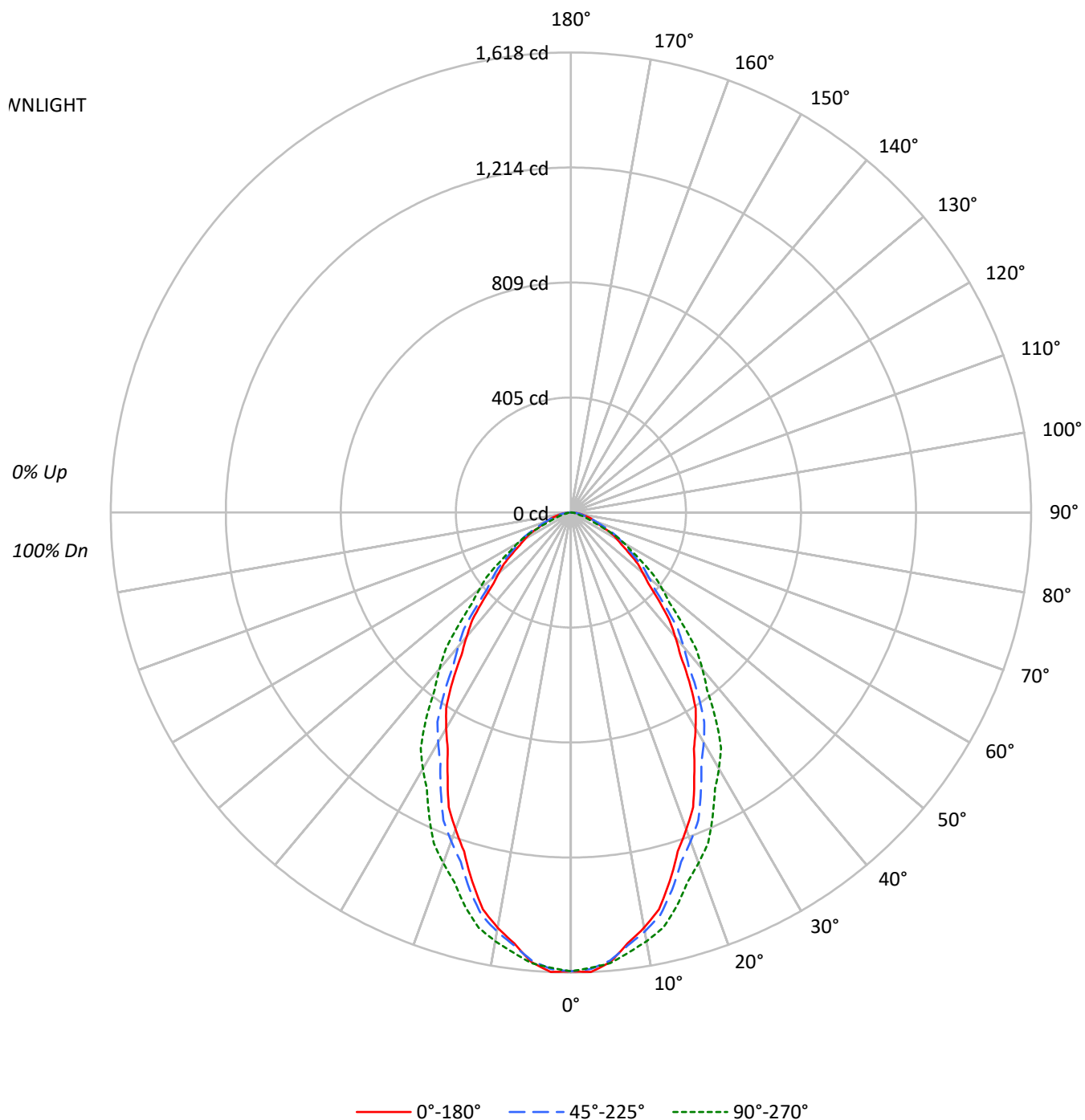
Lumens per Lamp: N/A
Luminaire Lumens: 2351.5 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	89	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78	78	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50	50	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14888	14888	14888
5°	14703	14650	14736
10°	13892	14017	14342
15°	12823	13122	13710
20°	11645	12082	12882
25°	10446	11015	12002
30°	9339	9949	11088
35°	8167	8756	10010
40°	6872	7420	8664
45°	5672	6161	7235
50°	4735	5163	6026
55°	4020	4430	4977
60°	3438	3842	3973
65°	2738	3229	2565
70°	2428	2522	1567
75°	2246	2046	959
80°	2067	1881	824
85°	1863	1736	677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	6.3
10°-20°	385.0	16.4
20°-30°	498.7	21.2
30°-40°	488.3	20.8
40°-50°	373.8	15.9
50°-60°	249.1	10.6
60°-70°	135.9	5.8
70°-80°	56.6	2.4
80°-90°	16.0	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°	1031.7	43.9
0°-40°	1520.0	64.6
0°-60°	2142.9	91.1
0°-90°	2351.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2351.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1588	1572	1582	1586	1591	148
15°	1342	1338	1374	1411	1435	375
25°	1026	1029	1082	1129	1179	472
35°	725	729	777	830	889	451
45°	435	443	472	508	554	339
55°	250	260	275	286	309	227
65°	125	136	148	129	118	130
75°	63	63	57	39	27	67
85°	18	18	16	11	6	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1617.7	1603.3	1607.0	1606.8	1602.4
5°	1587.6	1571.5	1581.8	1585.5	1591.1
7.5°	1528.6	1516.6	1535.3	1549.1	1560.4
10°	1482.8	1472.3	1496.2	1516.4	1530.9
12.5°	1429.6	1420.7	1450.4	1477.3	1496.4
15°	1342.5	1337.7	1373.8	1411.1	1435.3
17.5°	1249.5	1247.2	1288.5	1332.1	1363.0
20°	1186.0	1185.4	1230.6	1276.1	1312.0
22.5°	1122.1	1123.5	1171.1	1218.4	1259.4
25°	1026.1	1028.8	1082.0	1129.1	1179.0
27.5°	937.3	938.5	993.3	1043.2	1096.4
30°	876.6	880.1	933.9	985.5	1040.8
32.5°	816.1	820.1	872.8	926.0	982.5
35°	725.1	728.6	777.4	829.9	888.7
37.5°	631.3	636.0	679.5	728.9	786.9
40°	570.6	577.7	616.1	662.7	719.4
42.5°	512.3	520.9	556.6	600.8	651.9
45°	434.7	443.1	472.2	508.0	554.5
47.5°	367.9	377.5	399.9	430.7	470.3
50°	329.9	339.0	359.7	382.4	419.8
52.5°	296.6	305.5	324.0	341.6	373.5
55°	249.9	260.3	275.4	286.0	309.4
57.5°	211.7	221.7	233.7	238.4	252.7
60°	186.3	197.4	208.2	207.5	215.3
62.5°	163.0	172.5	183.3	175.6	176.1
65°	125.4	135.8	147.9	129.4	117.5
67.5°	101.3	103.4	116.1	90.3	76.2
70°	90.0	90.0	93.5	69.9	58.1
72.5°	79.2	79.2	76.0	56.7	44.4
75°	63.0	63.0	57.4	39.4	26.9
77.5°	48.6	48.1	43.9	29.3	19.5
80°	38.9	38.9	35.4	23.2	15.5
82.5°	30.5	30.5	27.4	18.1	11.5
85°	17.6	17.6	16.4	10.6	6.4
87.5°	6.3	6.3	5.6	3.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)