

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: P688996

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-125D-92765-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.1 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

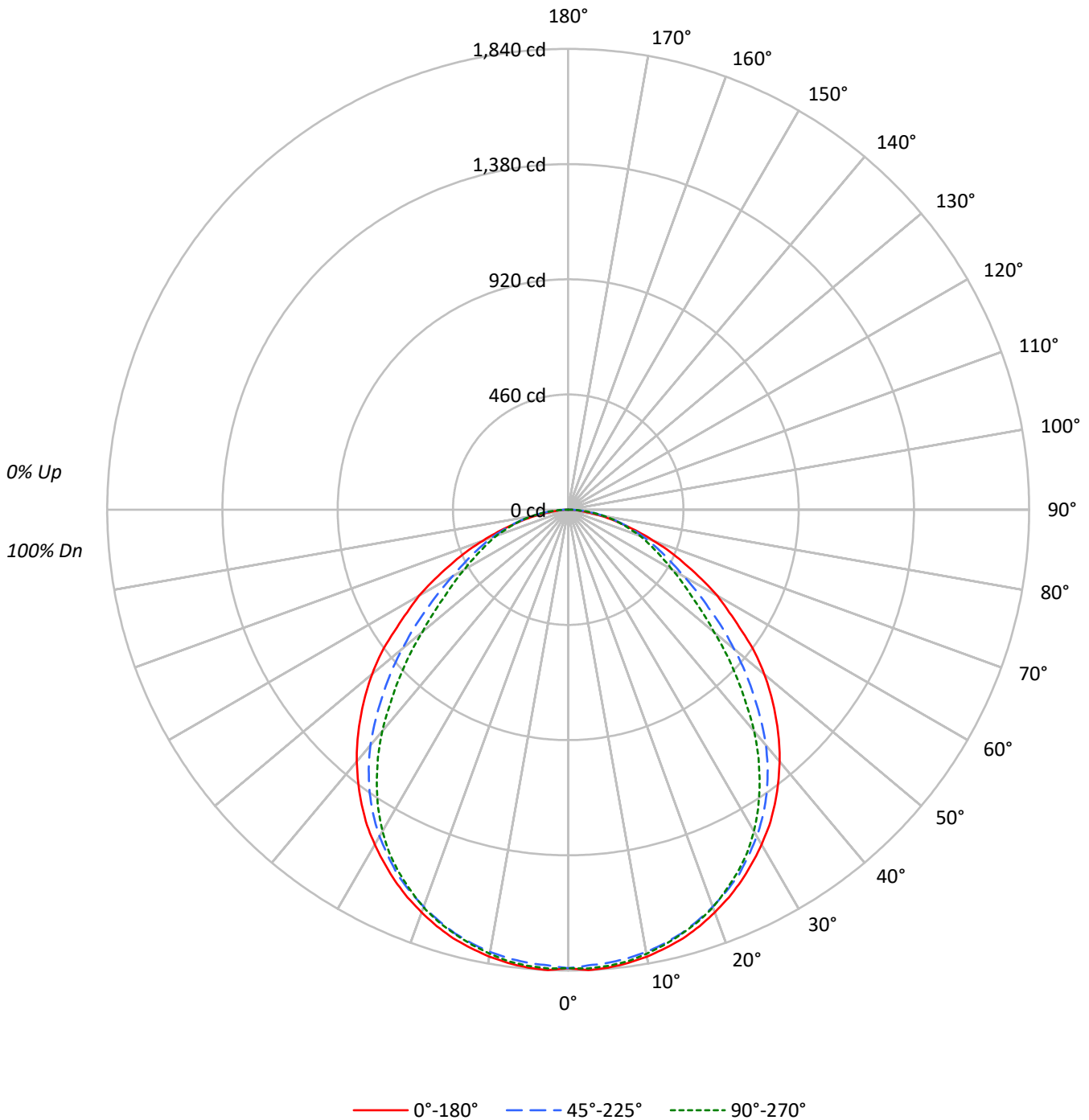
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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																												
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																												
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72																												
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62																												
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54																												
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47																												
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41																												
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																												
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33																												
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																												
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17625	17625	17625
5°	17738	17556	17670
10°	17713	17529	17598
15°	17660	17449	17473
20°	17526	17286	17309
25°	17372	17097	16973
30°	17161	16742	16481
35°	16898	16234	15654
40°	16501	15437	14521
45°	15956	14256	13008
50°	15297	12935	11384
55°	14218	11494	10071
60°	13230	10286	9242
65°	11739	9543	8738
70°	10201	9075	8611
75°	8403	8578	8228
80°	6653	8089	8089
85°	4938	7279	7533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	3.9
10°-20°	496.1	11.1
20°-30°	743.1	16.6
30°-40°	863.4	19.3
40°-50°	814.6	18.2
50°-60°	635.6	14.2
60°-70°	431.5	9.6
70°-80°	243.0	5.4
80°-90°	72.1	1.6
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°	1412.9	31.6
0°-40°	2276.3	50.9
0°-60°	3726.5	83.3
0°-90°	4473.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4473.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1835	1831	1817	1831	1828	174
15°	1772	1765	1751	1760	1753	500
25°	1635	1628	1610	1605	1598	753
35°	1438	1424	1381	1351	1332	898
45°	1172	1137	1047	981	955	904
55°	847	798	685	619	600	761
65°	515	468	419	393	384	515
75°	226	235	231	221	221	246
85°	45	64	66	66	68	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1840.1	1835.4	1821.3	1835.4	1833.1
5°	1835.4	1830.7	1816.6	1830.7	1828.4
7.5°	1826.0	1823.7	1807.2	1821.3	1819.0
10°	1811.9	1809.6	1793.1	1804.9	1800.1
12.5°	1793.1	1790.7	1774.3	1783.7	1779.0
15°	1771.9	1764.8	1750.7	1760.1	1753.1
17.5°	1743.7	1736.6	1720.1	1727.2	1724.8
20°	1710.7	1703.7	1687.2	1694.3	1689.5
22.5°	1675.4	1668.4	1649.5	1651.9	1644.8
25°	1635.4	1628.4	1609.5	1604.8	1597.8
27.5°	1590.7	1586.0	1557.8	1553.1	1546.0
30°	1543.7	1536.6	1506.0	1496.6	1482.5
32.5°	1494.2	1480.1	1447.2	1428.4	1411.9
35°	1437.8	1423.6	1381.3	1350.7	1331.9
37.5°	1376.6	1355.4	1308.3	1266.0	1247.2
40°	1313.0	1289.5	1228.3	1171.9	1155.4
42.5°	1244.8	1216.6	1138.9	1080.1	1051.9
45°	1171.9	1136.6	1047.1	981.3	955.4
47.5°	1098.9	1054.2	957.7	887.1	858.9
50°	1021.3	967.1	863.6	788.3	760.1
52.5°	941.3	882.4	776.5	698.9	677.7
55°	847.1	797.7	684.8	618.9	600.0
57.5°	762.4	708.3	609.5	553.0	538.9
60°	687.1	621.2	534.2	491.8	480.0
62.5°	600.0	541.2	473.0	440.0	428.3
65°	515.3	468.3	418.9	393.0	383.6
67.5°	442.4	402.4	369.4	348.3	343.6
70°	362.4	341.2	322.4	305.9	305.9
72.5°	294.1	287.1	275.3	265.9	258.8
75°	225.9	235.3	230.6	221.2	221.2
77.5°	171.8	185.9	188.3	183.5	185.9
80°	120.0	141.2	145.9	143.5	145.9
82.5°	75.3	101.2	105.9	105.9	108.2
85°	44.7	63.5	65.9	65.9	68.2
87.5°	18.8	30.6	32.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)