

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: P688841

Luminaire Tested: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

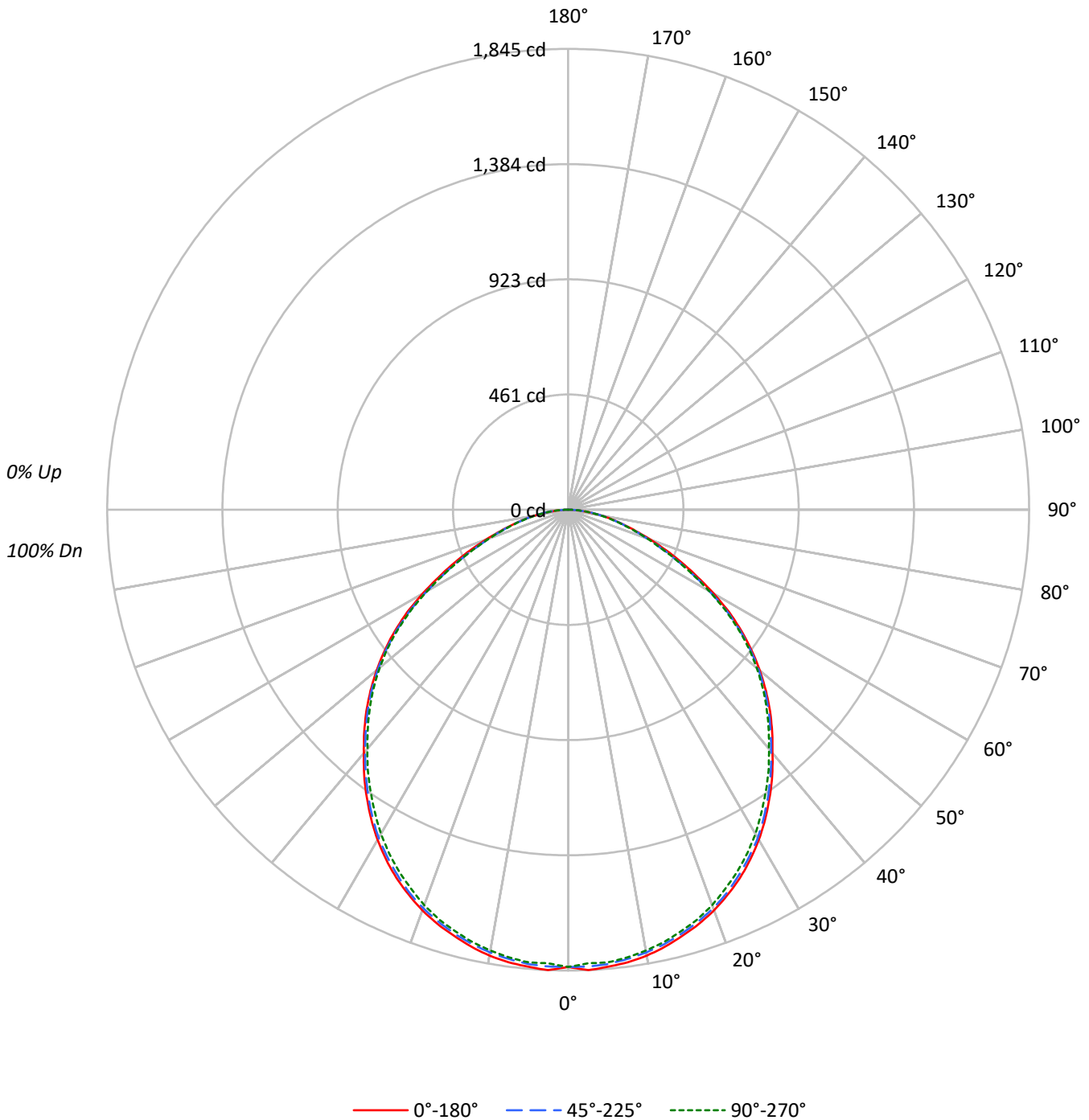
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688841

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P688841

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17753	17645	17583
10°	17724	17598	17519
15°	17606	17510	17414
20°	17490	17391	17259
25°	17282	17162	16992
30°	16962	16873	16658
35°	16519	16405	16198
40°	15990	15889	15707
45°	15553	15444	15291
50°	14994	14898	14754
55°	14218	14030	13923
60°	12943	12573	12512
65°	11404	10928	10891
70°	9846	9438	9438
75°	8474	8354	8235
80°	7474	7562	7385
85°	5843	6385	6385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15553 cd/sqm

TEST NUMBER: P688841

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.7
10°-20°	494.6	10.6
20°-30°	740.8	15.8
30°-40°	868.8	18.5
40°-50°	871.5	18.6
50°-60°	744.1	15.9
60°-70°	483.6	10.3
70°-80°	242.2	5.2
80°-90°	66.4	1.4
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°	1408.5	30.1
0°-40°	2277.3	48.6
0°-60°	3893.0	83.1
0°-90°	4685.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1837	1819	1826	1819	1819	175
15°	1766	1749	1757	1750	1747	499
25°	1627	1608	1616	1601	1600	749
35°	1406	1391	1396	1380	1378	879
45°	1142	1134	1134	1123	1123	880
55°	847	844	836	831	830	754
65°	501	491	480	476	478	499
75°	228	228	225	223	221	246
85°	53	58	58	58	58	63
90°	0	0	0	0	0	

TEST NUMBER: P688841

CATALOG NUMBER: SQ4R-PP3-125D-92765-1-UNV-STD-W-4_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1845.1	1825.8	1830.6	1827.4	1817.8
5°	1837.0	1819.4	1825.8	1819.4	1819.4
7.5°	1827.4	1808.2	1814.6	1808.2	1808.2
10°	1813.0	1793.7	1800.1	1793.7	1792.1
12.5°	1792.1	1772.9	1780.9	1772.9	1772.9
15°	1766.4	1748.8	1756.8	1750.4	1747.2
17.5°	1739.2	1719.9	1729.5	1721.5	1719.9
20°	1707.1	1687.8	1697.5	1684.6	1684.6
22.5°	1668.6	1649.3	1660.6	1642.9	1642.9
25°	1626.9	1607.6	1615.6	1601.2	1599.6
27.5°	1578.7	1559.5	1567.5	1551.5	1551.5
30°	1525.8	1508.1	1517.8	1500.1	1498.5
32.5°	1468.0	1452.0	1458.4	1440.7	1439.1
35°	1405.5	1391.0	1395.8	1379.8	1378.2
37.5°	1341.3	1325.2	1331.7	1317.2	1317.2
40°	1272.3	1262.7	1264.3	1253.0	1249.8
42.5°	1208.1	1196.9	1198.5	1187.3	1187.3
45°	1142.3	1134.3	1134.3	1123.1	1123.1
47.5°	1073.3	1066.9	1065.3	1055.7	1055.7
50°	1001.1	996.3	994.7	986.7	985.1
52.5°	925.7	924.1	917.7	911.3	911.3
55°	847.1	843.9	835.9	831.1	829.5
57.5°	763.7	757.3	749.3	741.2	742.8
60°	672.2	665.8	653.0	649.8	649.8
62.5°	584.0	576.0	563.1	558.3	561.5
65°	500.6	490.9	479.7	476.5	478.1
67.5°	423.6	413.9	401.1	401.1	399.5
70°	349.8	344.9	335.3	335.3	335.3
72.5°	284.0	282.4	276.0	276.0	274.4
75°	227.8	227.8	224.6	223.0	221.4
77.5°	179.7	179.7	178.1	176.5	173.3
80°	134.8	138.0	136.4	134.8	133.2
82.5°	93.1	96.3	96.3	93.1	93.1
85°	52.9	57.8	57.8	57.8	57.8
87.5°	17.6	24.1	25.7	25.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)