

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: P688925

Luminaire Tested: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4569.5 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

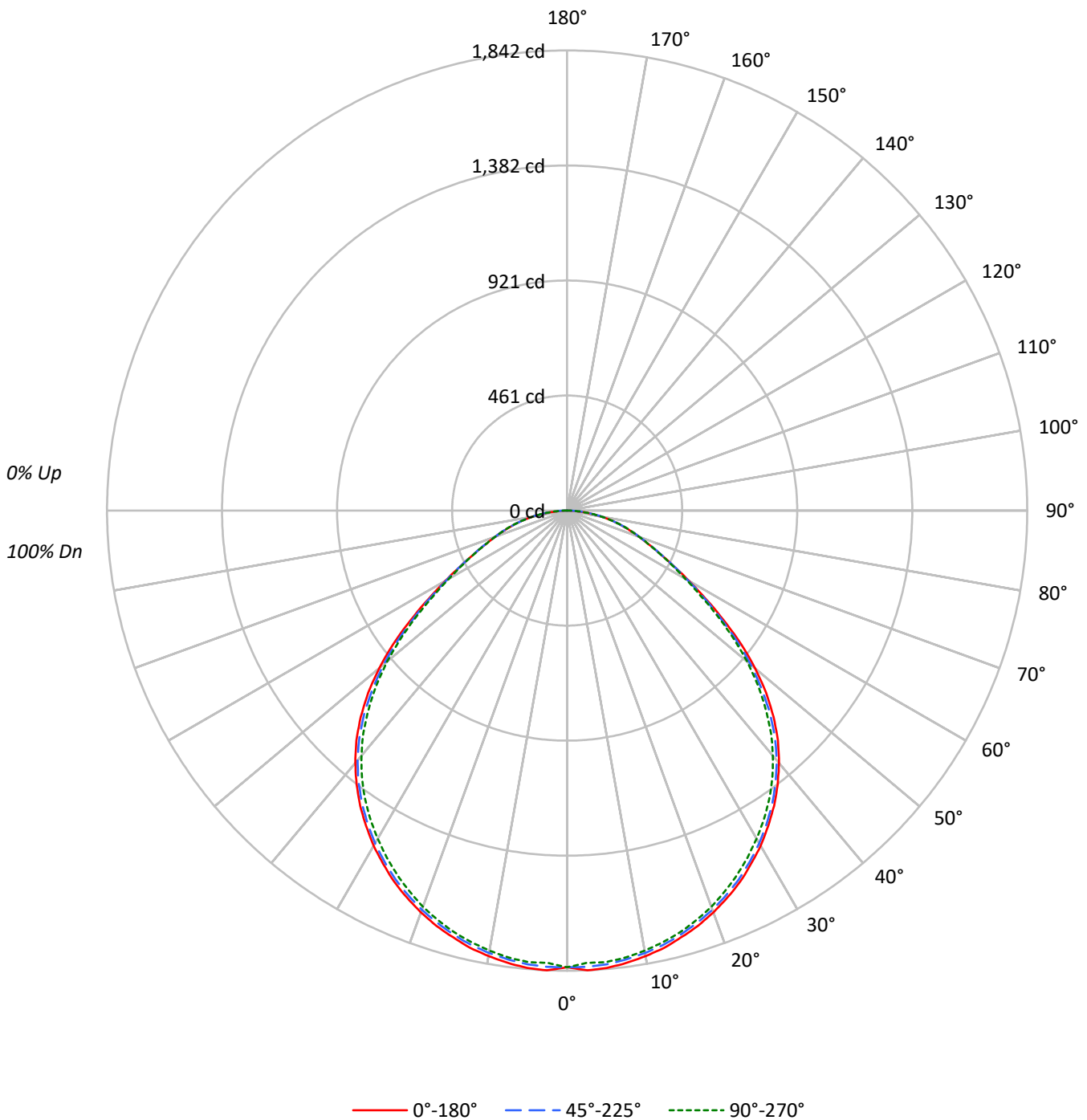
Input Watts (W): 61.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688925

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P688925

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	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	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17597	17597	17597
5°	17756	17619	17527
10°	17699	17576	17484
15°	17622	17512	17417
20°	17533	17420	17291
25°	17409	17293	17092
30°	17222	17099	16854
35°	16968	16819	16579
40°	16580	16402	16105
45°	15905	15626	15305
50°	14714	14360	14077
55°	12842	12552	12288
60°	10821	10731	10519
65°	9360	9397	9324
70°	8597	8642	8642
75°	8258	8258	8317
80°	7767	7856	7767
85°	6263	6959	6959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15905 cd/sqm

TEST NUMBER: P688925

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	3.8
10°-20°	494.8	10.8
20°-30°	746.3	16.3
30°-40°	889.4	19.5
40°-50°	877.4	19.2
50°-60°	669.3	14.6
60°-70°	413.1	9.0
70°-80°	235.4	5.2
80°-90°	71.0	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°	1414.0	30.9
0°-40°	2303.4	50.4
0°-60°	3850.1	84.3
0°-90°	4569.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1837	1817	1823	1817	1814	174
15°	1768	1749	1757	1751	1748	499
25°	1639	1618	1628	1611	1609	755
35°	1444	1426	1431	1412	1411	902
45°	1168	1152	1148	1127	1124	896
55°	765	752	748	735	732	685
65°	411	408	412	409	409	415
75°	222	222	222	224	224	234
85°	57	60	63	63	63	67
90°	0	0	0	0	0	

TEST NUMBER: P688925

CATALOG NUMBER: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.8	1827.8	1827.8	1827.8	1827.8
2.5°	1842.0	1821.5	1827.8	1823.1	1812.1
5°	1837.3	1816.8	1823.1	1816.8	1813.6
7.5°	1826.2	1805.8	1812.1	1805.8	1804.2
10°	1810.5	1791.6	1797.9	1791.6	1788.5
12.5°	1793.2	1772.7	1780.6	1772.7	1769.6
15°	1768.0	1749.1	1757.0	1750.7	1747.5
17.5°	1742.8	1722.3	1730.2	1723.9	1719.2
20°	1711.3	1692.4	1700.3	1689.3	1687.7
22.5°	1676.7	1657.8	1665.7	1649.9	1649.9
25°	1638.9	1618.4	1627.9	1610.6	1609.0
27.5°	1594.8	1575.9	1583.8	1566.5	1564.9
30°	1549.2	1530.3	1538.1	1519.2	1516.1
32.5°	1497.2	1479.9	1486.2	1467.3	1465.7
35°	1443.7	1426.4	1431.1	1412.2	1410.6
37.5°	1383.8	1368.1	1371.3	1350.8	1349.2
40°	1319.3	1303.6	1305.1	1283.1	1281.5
42.5°	1248.5	1232.7	1231.1	1209.1	1207.5
45°	1168.2	1152.4	1147.7	1127.2	1124.1
47.5°	1080.0	1064.3	1054.8	1037.5	1035.9
50°	982.4	966.6	958.8	944.6	939.9
52.5°	876.9	861.2	854.9	842.3	837.6
55°	765.1	752.5	747.8	735.2	732.1
57.5°	658.1	648.6	647.1	634.5	632.9
60°	562.0	557.3	557.3	546.3	546.3
62.5°	480.2	477.0	480.2	473.9	472.3
65°	410.9	407.8	412.5	409.3	409.3
67.5°	352.7	352.7	355.8	354.2	354.2
70°	305.4	305.4	307.0	307.0	307.0
72.5°	262.9	261.3	266.1	266.1	264.5
75°	222.0	222.0	222.0	223.6	223.6
77.5°	181.0	181.0	182.6	182.6	181.0
80°	140.1	141.7	141.7	140.1	140.1
82.5°	99.2	100.8	100.8	100.8	99.2
85°	56.7	59.8	63.0	63.0	63.0
87.5°	20.5	26.8	31.5	31.5	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)