

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: P688919

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688919
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-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4437.2 lumens
Efficiency: N/A
Efficacy: 72.5 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

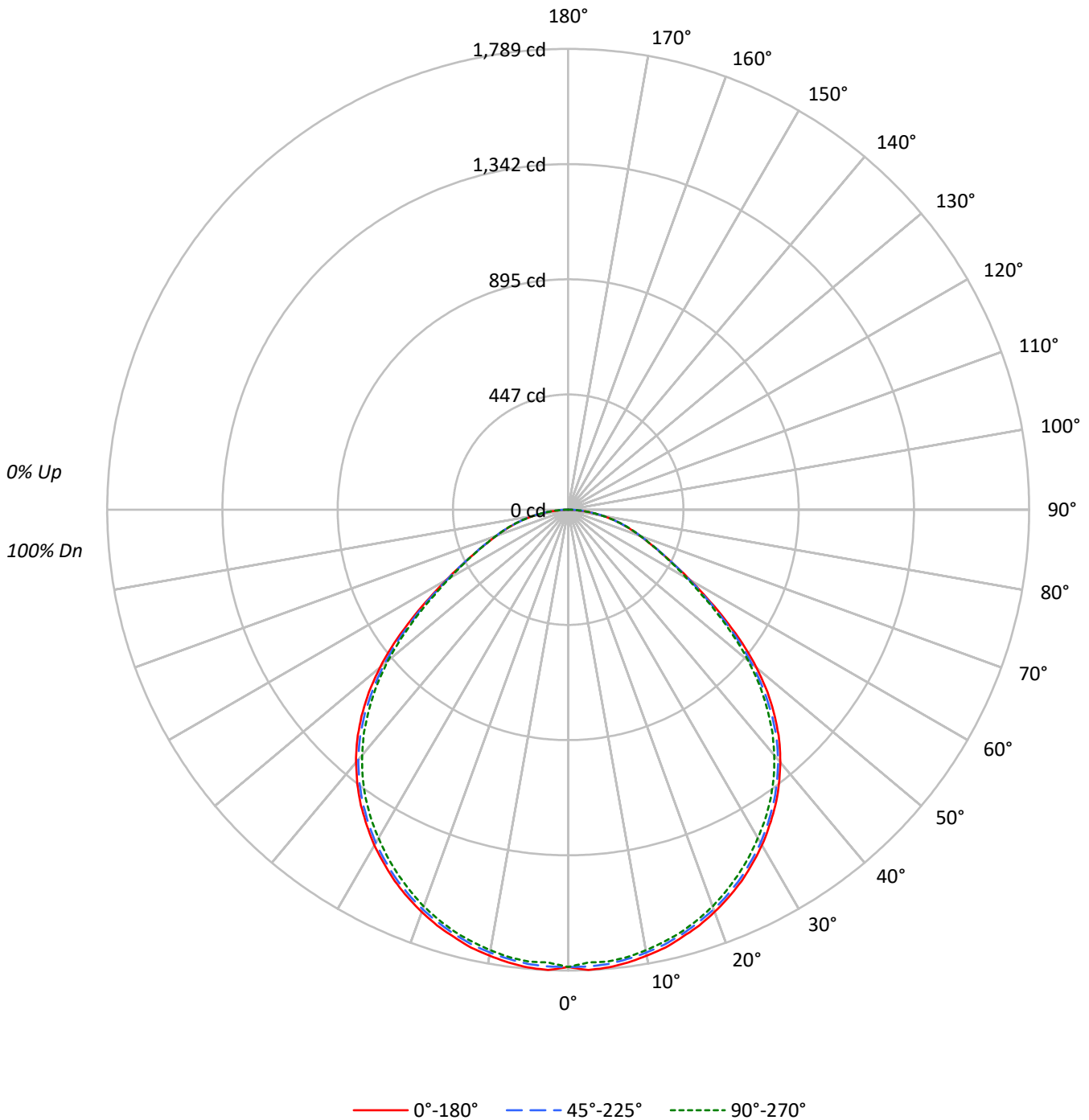
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	17088	17088	17088
5°	17242	17108	17019
10°	17187	17067	16978
15°	17111	17005	16913
20°	17025	16916	16790
25°	16905	16791	16597
30°	16723	16604	16366
35°	16476	16332	16099
40°	16100	15927	15639
45°	15444	15174	14861
50°	14287	13944	13670
55°	12471	12189	11932
60°	10509	10421	10215
65°	9089	9123	9055
70°	8349	8391	8391
75°	8020	8020	8076
80°	7546	7629	7546
85°	6075	6760	6760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.8
10°-20°	480.5	10.8
20°-30°	724.7	16.3
30°-40°	863.6	19.5
40°-50°	852.0	19.2
50°-60°	649.9	14.6
60°-70°	401.1	9.0
70°-80°	228.6	5.2
80°-90°	68.9	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°	1373.1	30.9
0°-40°	2236.7	50.4
0°-60°	3738.6	84.3
0°-90°	4437.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1784	1764	1770	1764	1761	169
15°	1717	1698	1706	1700	1697	485
25°	1591	1572	1581	1564	1562	733
35°	1402	1385	1390	1371	1370	876
45°	1134	1119	1114	1095	1092	870
55°	743	731	726	714	711	666
65°	399	396	400	398	398	403
75°	216	216	216	217	217	228
85°	55	58	61	61	61	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1788.6	1768.8	1774.9	1770.3	1759.6
5°	1784.1	1764.2	1770.3	1764.2	1761.1
7.5°	1773.4	1753.5	1759.6	1753.5	1752.0
10°	1758.1	1739.7	1745.8	1739.7	1736.7
12.5°	1741.3	1721.4	1729.0	1721.4	1718.3
15°	1716.8	1698.5	1706.1	1700.0	1696.9
17.5°	1692.3	1672.5	1680.1	1674.0	1669.4
20°	1661.8	1643.4	1651.1	1640.4	1638.8
22.5°	1628.1	1609.8	1617.4	1602.1	1602.1
25°	1591.4	1571.6	1580.7	1563.9	1562.4
27.5°	1548.6	1530.3	1537.9	1521.1	1519.6
30°	1504.3	1486.0	1493.6	1475.3	1472.2
32.5°	1453.8	1437.0	1443.1	1424.8	1423.3
35°	1401.9	1385.1	1389.6	1371.3	1369.8
37.5°	1343.8	1328.5	1331.5	1311.7	1310.1
40°	1281.1	1265.8	1267.3	1245.9	1244.4
42.5°	1212.3	1197.0	1195.5	1174.1	1172.6
45°	1134.3	1119.1	1114.5	1094.6	1091.5
47.5°	1048.7	1033.4	1024.3	1007.5	1005.9
50°	953.9	938.7	931.0	917.3	912.7
52.5°	851.5	836.2	830.1	817.9	813.3
55°	743.0	730.7	726.2	713.9	710.9
57.5°	639.0	629.8	628.3	616.1	614.6
60°	545.8	541.2	541.2	530.5	530.5
62.5°	466.3	463.2	466.3	460.2	458.6
65°	399.0	395.9	400.5	397.5	397.5
67.5°	342.4	342.4	345.5	344.0	344.0
70°	296.6	296.6	298.1	298.1	298.1
72.5°	255.3	253.8	258.4	258.4	256.8
75°	215.6	215.6	215.6	217.1	217.1
77.5°	175.8	175.8	177.3	177.3	175.8
80°	136.1	137.6	137.6	136.1	136.1
82.5°	96.3	97.8	97.8	97.8	96.3
85°	55.0	58.1	61.2	61.2	61.2
87.5°	19.9	26.0	30.6	30.6	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)