

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: P688918

Luminaire Tested: SQ4R-PR1-125D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688918
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_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: 4276.7 lumens
Efficiency: N/A
Efficacy: 70.1 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

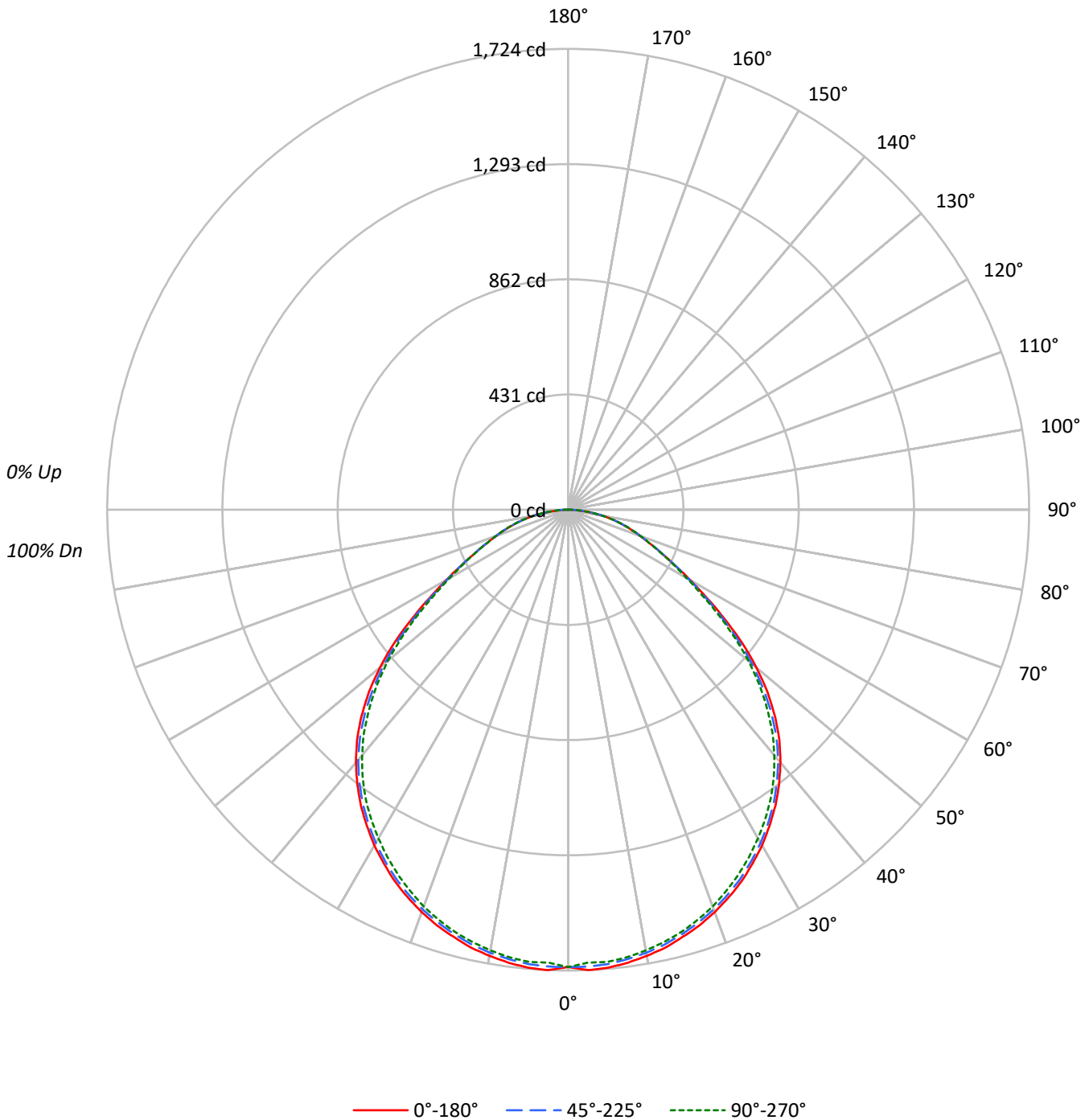
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16469	16469	16469
5°	16618	16490	16405
10°	16565	16450	16364
15°	16492	16390	16302
20°	16410	16304	16183
25°	16294	16185	15997
30°	16118	16004	15775
35°	15880	15742	15517
40°	15518	15351	15074
45°	14885	14625	14324
50°	13772	13441	13176
55°	12020	11748	11501
60°	10128	10043	9845
65°	8761	8795	8727
70°	8048	8087	8087
75°	7730	7730	7782
80°	7268	7352	7268
85°	5854	6506	6506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.8
10°-20°	463.1	10.8
20°-30°	698.5	16.3
30°-40°	832.4	19.5
40°-50°	821.2	19.2
50°-60°	626.4	14.6
60°-70°	386.6	9.0
70°-80°	220.3	5.2
80°-90°	66.4	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°	1323.5	30.9
0°-40°	2155.9	50.4
0°-60°	3603.4	84.3
0°-90°	4276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4276.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1720	1700	1706	1700	1698	163
15°	1655	1637	1644	1638	1636	467
25°	1534	1515	1524	1507	1506	706
35°	1351	1335	1339	1322	1320	844
45°	1093	1079	1074	1055	1052	839
55°	716	704	700	688	685	642
65°	385	382	386	383	383	388
75°	208	208	208	209	209	219
85°	53	56	59	59	59	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1710.7	1710.7	1710.7	1710.7	1710.7
2.5°	1724.0	1704.8	1710.7	1706.3	1696.0
5°	1719.6	1700.4	1706.3	1700.4	1697.5
7.5°	1709.3	1690.1	1696.0	1690.1	1688.6
10°	1694.5	1676.8	1682.7	1676.8	1673.9
12.5°	1678.3	1659.2	1666.5	1659.2	1656.2
15°	1654.7	1637.1	1644.4	1638.5	1635.6
17.5°	1631.2	1612.0	1619.4	1613.5	1609.1
20°	1601.7	1584.0	1591.4	1581.1	1579.6
22.5°	1569.3	1551.6	1559.0	1544.2	1544.2
25°	1533.9	1514.8	1523.6	1507.4	1505.9
27.5°	1492.7	1475.0	1482.3	1466.1	1464.7
30°	1449.9	1432.2	1439.6	1421.9	1419.0
32.5°	1401.3	1385.1	1391.0	1373.3	1371.8
35°	1351.2	1335.0	1339.4	1321.7	1320.3
37.5°	1295.2	1280.5	1283.4	1264.3	1262.8
40°	1234.8	1220.1	1221.5	1200.9	1199.4
42.5°	1168.5	1153.7	1152.3	1131.6	1130.2
45°	1093.3	1078.6	1074.2	1055.0	1052.1
47.5°	1010.8	996.1	987.2	971.0	969.6
50°	919.5	904.7	897.4	884.1	879.7
52.5°	820.7	806.0	800.1	788.3	783.9
55°	716.1	704.3	699.9	688.1	685.2
57.5°	615.9	607.1	605.6	593.8	592.3
60°	526.0	521.6	521.6	511.3	511.3
62.5°	449.4	446.5	449.4	443.5	442.0
65°	384.6	381.6	386.1	383.1	383.1
67.5°	330.1	330.1	333.0	331.5	331.5
70°	285.9	285.9	287.3	287.3	287.3
72.5°	246.1	244.6	249.0	249.0	247.5
75°	207.8	207.8	207.8	209.2	209.2
77.5°	169.5	169.5	170.9	170.9	169.5
80°	131.1	132.6	132.6	131.1	131.1
82.5°	92.8	94.3	94.3	94.3	92.8
85°	53.0	56.0	58.9	58.9	58.9
87.5°	19.2	25.0	29.5	29.5	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)