

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: P688911

Luminaire Tested: SQ4R-PR1-100D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688911
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-PR1-100D-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3974.4 lumens
Efficiency: N/A
Efficacy: 86.0 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

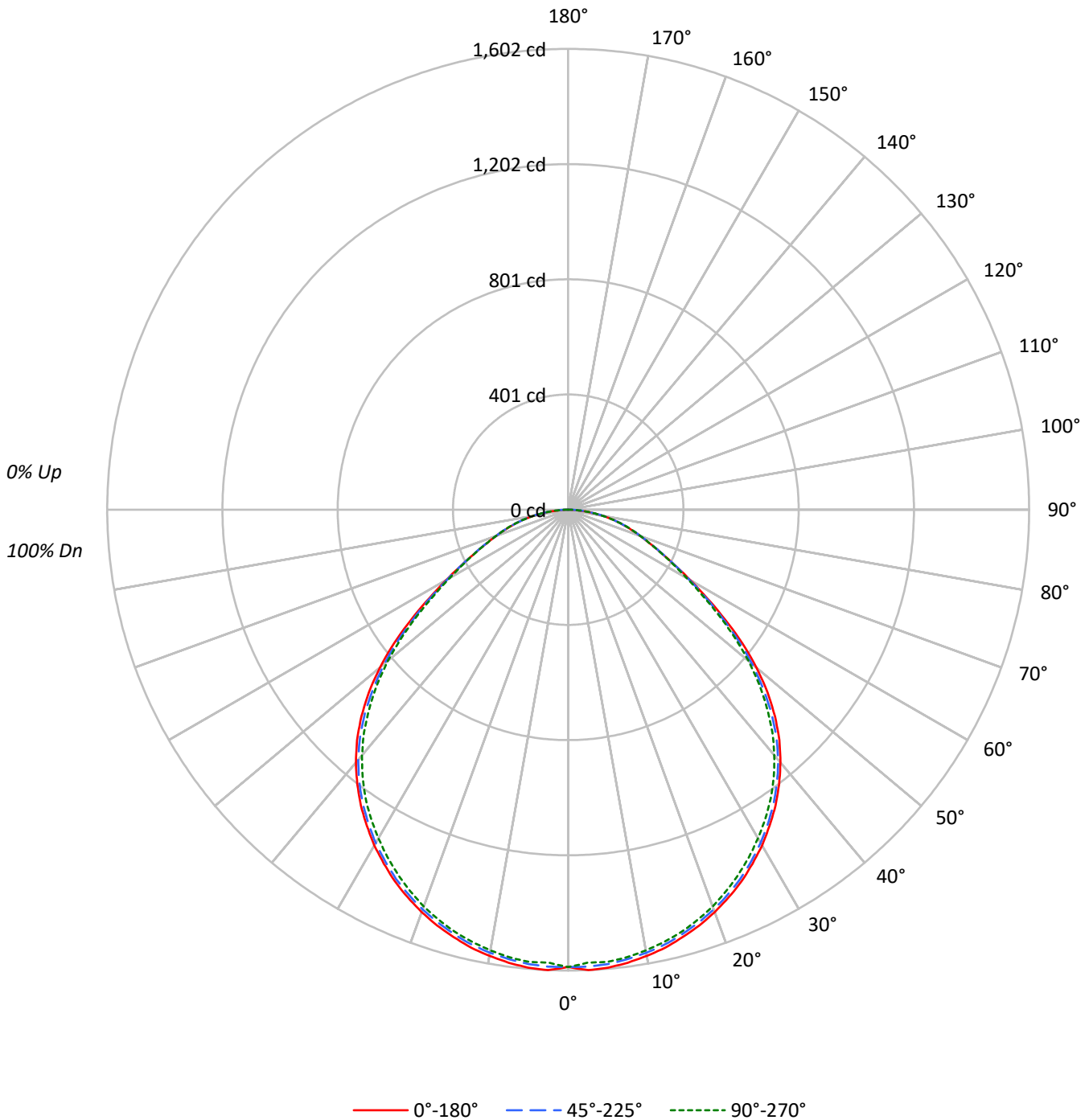
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	
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°	15306	15306	15306
5°	15443	15324	15245
10°	15394	15287	15207
15°	15327	15232	15150
20°	15250	15152	15039
25°	15143	15041	14866
30°	14979	14872	14660
35°	14758	14629	14420
40°	14421	14267	14008
45°	13833	13591	13312
50°	12798	12490	12244
55°	11170	10917	10687
60°	9414	9333	9150
65°	8142	8174	8110
70°	7479	7516	7516
75°	7183	7183	7231
80°	6758	6830	6758
85°	5446	6053	6053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13833 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.8
10°-20°	430.4	10.8
20°-30°	649.1	16.3
30°-40°	773.6	19.5
40°-50°	763.1	19.2
50°-60°	582.1	14.6
60°-70°	359.3	9.0
70°-80°	204.7	5.2
80°-90°	61.7	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°	1229.9	30.9
0°-40°	2003.5	50.4
0°-60°	3348.7	84.3
0°-90°	3974.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1598	1580	1586	1580	1578	152
15°	1538	1521	1528	1523	1520	434
25°	1426	1408	1416	1401	1400	656
35°	1256	1241	1245	1228	1227	784
45°	1016	1002	998	980	978	780
55°	666	654	650	640	637	596
65°	357	355	359	356	356	361
75°	193	193	193	194	194	204
85°	49	52	55	55	55	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1602.1	1584.3	1589.8	1585.7	1576.1
5°	1598.0	1580.2	1585.7	1580.2	1577.5
7.5°	1588.4	1570.6	1576.1	1570.6	1569.3
10°	1574.7	1558.3	1563.8	1558.3	1555.6
12.5°	1559.7	1541.9	1548.7	1541.9	1539.1
15°	1537.8	1521.3	1528.2	1522.7	1520.0
17.5°	1515.9	1498.0	1504.9	1499.4	1495.3
20°	1488.5	1472.0	1478.9	1469.3	1467.9
22.5°	1458.3	1441.9	1448.8	1435.1	1435.1
25°	1425.5	1407.7	1415.9	1400.8	1399.5
27.5°	1387.1	1370.7	1377.5	1362.5	1361.1
30°	1347.4	1331.0	1337.8	1321.4	1318.7
32.5°	1302.2	1287.2	1292.6	1276.2	1274.8
35°	1255.7	1240.6	1244.7	1228.3	1226.9
37.5°	1203.6	1189.9	1192.7	1174.9	1173.5
40°	1147.5	1133.8	1135.2	1116.0	1114.6
42.5°	1085.9	1072.2	1070.8	1051.6	1050.3
45°	1016.0	1002.4	998.2	980.4	977.7
47.5°	939.4	925.7	917.5	902.4	901.0
50°	854.5	840.8	833.9	821.6	817.5
52.5°	762.7	749.0	743.5	732.6	728.5
55°	665.5	654.5	650.4	639.5	636.7
57.5°	572.4	564.2	562.8	551.8	550.5
60°	488.9	484.7	484.7	475.2	475.2
62.5°	417.6	414.9	417.6	412.2	410.8
65°	357.4	354.7	358.8	356.0	356.0
67.5°	306.7	306.7	309.5	308.1	308.1
70°	265.7	265.7	267.0	267.0	267.0
72.5°	228.7	227.3	231.4	231.4	230.0
75°	193.1	193.1	193.1	194.4	194.4
77.5°	157.5	157.5	158.8	158.8	157.5
80°	121.9	123.2	123.2	121.9	121.9
82.5°	86.3	87.6	87.6	87.6	86.3
85°	49.3	52.0	54.8	54.8	54.8
87.5°	17.8	23.3	27.4	27.4	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)