

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: P688829

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688829
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-PP3-100D-92765-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3860.7 lumens
Efficiency: N/A
Efficacy: 83.6 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

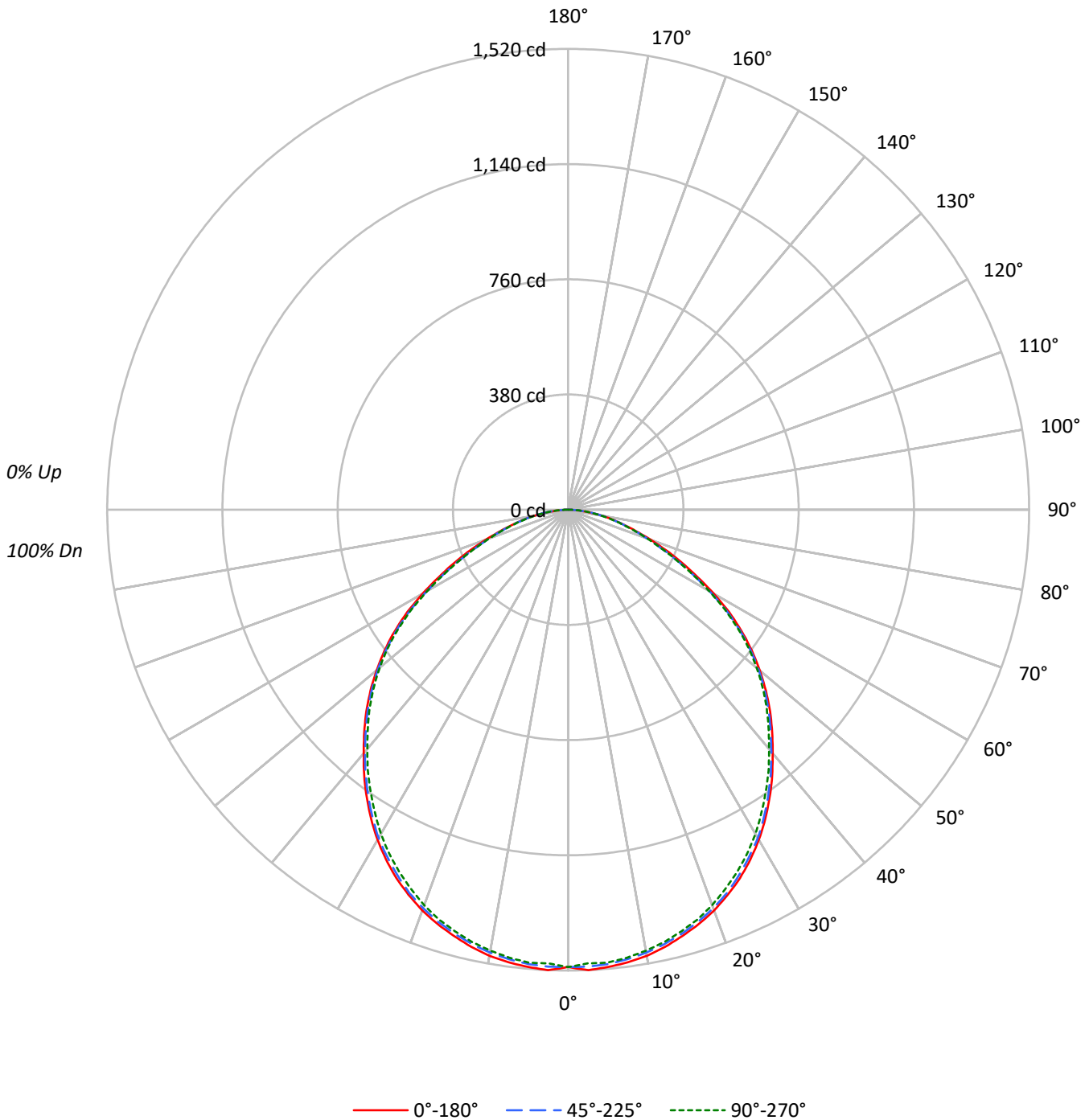
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14522	14522	14522
5°	14629	14540	14488
10°	14604	14501	14436
15°	14508	14428	14349
20°	14412	14330	14221
25°	14240	14142	14002
30°	13977	13904	13727
35°	13611	13518	13346
40°	13176	13093	12943
45°	12816	12726	12599
50°	12356	12277	12157
55°	11716	11561	11472
60°	10665	10361	10309
65°	9397	9005	8975
70°	8112	7777	7777
75°	6982	6885	6785
80°	6160	6232	6082
85°	4816	5258	5258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.7
10°-20°	407.5	10.6
20°-30°	610.4	15.8
30°-40°	715.9	18.5
40°-50°	718.1	18.6
50°-60°	613.2	15.9
60°-70°	398.5	10.3
70°-80°	199.6	5.2
80°-90°	54.7	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°	1160.6	30.1
0°-40°	1876.5	48.6
0°-60°	3207.8	83.1
0°-90°	3860.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3860.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1514	1499	1504	1499	1499	144
15°	1456	1441	1448	1442	1440	411
25°	1340	1325	1331	1319	1318	617
35°	1158	1146	1150	1137	1136	724
45°	941	935	935	925	925	725
55°	698	695	689	685	684	621
65°	412	404	395	393	394	411
75°	188	188	185	184	182	203
85°	44	48	48	48	48	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1520.3	1504.5	1508.4	1505.8	1497.9
5°	1513.7	1499.2	1504.5	1499.2	1499.2
7.5°	1505.8	1489.9	1495.2	1489.9	1489.9
10°	1493.9	1478.0	1483.3	1478.0	1476.7
12.5°	1476.7	1460.9	1467.5	1460.9	1460.9
15°	1455.6	1441.0	1447.6	1442.3	1439.7
17.5°	1433.1	1417.2	1425.2	1418.6	1417.2
20°	1406.7	1390.8	1398.7	1388.1	1388.1
22.5°	1374.9	1359.1	1368.3	1353.8	1353.8
25°	1340.5	1324.7	1331.3	1319.4	1318.1
27.5°	1300.9	1285.0	1291.6	1278.4	1278.4
30°	1257.3	1242.7	1250.7	1236.1	1234.8
32.5°	1209.7	1196.4	1201.7	1187.2	1185.9
35°	1158.1	1146.2	1150.2	1137.0	1135.6
37.5°	1105.2	1092.0	1097.3	1085.4	1085.4
40°	1048.4	1040.4	1041.8	1032.5	1029.9
42.5°	995.5	986.2	987.6	978.3	978.3
45°	941.3	934.7	934.7	925.4	925.4
47.5°	884.4	879.2	877.8	869.9	869.9
50°	825.0	821.0	819.7	813.1	811.7
52.5°	762.8	761.5	756.2	750.9	750.9
55°	698.0	695.4	688.8	684.8	683.5
57.5°	629.3	624.0	617.4	610.8	612.1
60°	553.9	548.6	538.1	535.4	535.4
62.5°	481.2	474.6	464.0	460.1	462.7
65°	412.5	404.5	395.3	392.6	394.0
67.5°	349.0	341.1	330.5	330.5	329.2
70°	288.2	284.2	276.3	276.3	276.3
72.5°	234.0	232.7	227.4	227.4	226.1
75°	187.7	187.7	185.1	183.8	182.4
77.5°	148.1	148.1	146.7	145.4	142.8
80°	111.1	113.7	112.4	111.1	109.7
82.5°	76.7	79.3	79.3	76.7	76.7
85°	43.6	47.6	47.6	47.6	47.6
87.5°	14.5	19.8	21.2	21.2	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)