

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: P688548

Luminaire Tested: SQ4R-PP3-100D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688548
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-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3783.9 lumens
Efficiency: N/A
Efficacy: 102.3 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

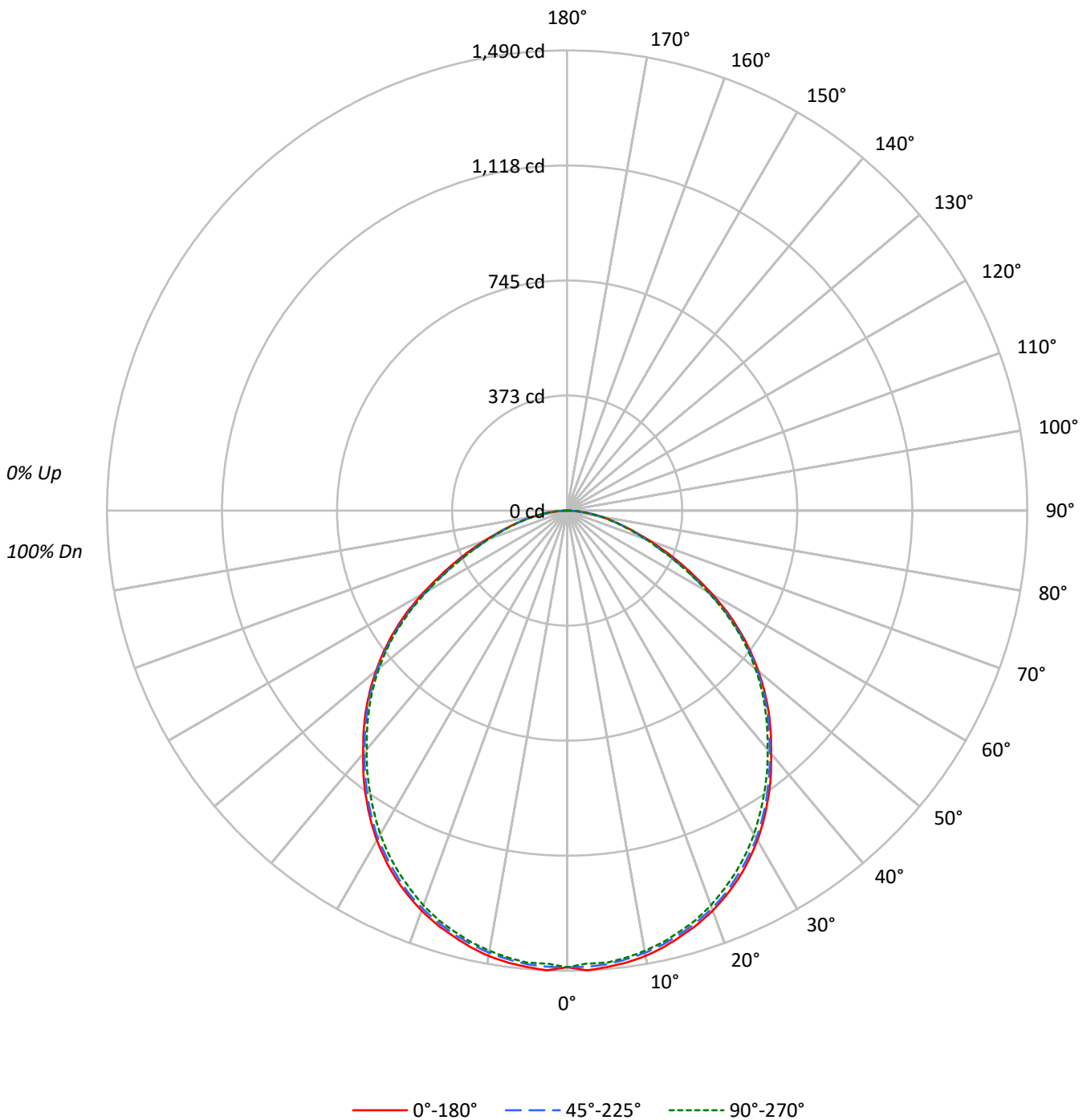
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14234	14234	14234
5°	14339	14251	14200
10°	14314	14213	14150
15°	14219	14142	14064
20°	14125	14045	13940
25°	13957	13860	13723
30°	13699	13627	13453
35°	13341	13249	13082
40°	12913	12833	12686
45°	12561	12473	12349
50°	12111	12033	11916
55°	11484	11331	11244
60°	10453	10155	10105
65°	9210	8825	8795
70°	7952	7623	7623
75°	6844	6748	6651
80°	6032	6104	5960
85°	4728	5147	5147

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.7
10°-20°	399.4	10.6
20°-30°	598.3	15.8
30°-40°	701.7	18.5
40°-50°	703.8	18.6
50°-60°	601.0	15.9
60°-70°	390.6	10.3
70°-80°	195.6	5.2
80°-90°	53.6	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°	1137.6	30.1
0°-40°	1839.2	48.6
0°-60°	3144.1	83.1
0°-90°	3783.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3783.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1484	1469	1475	1469	1469	141
15°	1427	1412	1419	1414	1411	403
25°	1314	1298	1305	1293	1292	605
35°	1135	1123	1127	1114	1113	710
45°	923	916	916	907	907	711
55°	684	682	675	671	670	609
65°	404	396	387	385	386	403
75°	184	184	181	180	179	199
85°	43	47	47	47	47	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.5	1478.5	1478.5	1478.5	1478.5
2.5°	1490.1	1474.6	1478.5	1475.9	1468.1
5°	1483.7	1469.4	1474.6	1469.4	1469.4
7.5°	1475.9	1460.3	1465.5	1460.3	1460.3
10°	1464.2	1448.7	1453.9	1448.7	1447.4
12.5°	1447.4	1431.8	1438.3	1431.8	1431.8
15°	1426.6	1412.4	1418.9	1413.7	1411.1
17.5°	1404.6	1389.1	1396.8	1390.4	1389.1
20°	1378.7	1363.1	1370.9	1360.6	1360.6
22.5°	1347.6	1332.0	1341.1	1326.9	1326.9
25°	1313.9	1298.4	1304.8	1293.2	1291.9
27.5°	1275.0	1259.5	1266.0	1253.0	1253.0
30°	1232.3	1218.0	1225.8	1211.5	1210.2
32.5°	1185.6	1172.7	1177.9	1163.6	1162.3
35°	1135.1	1123.4	1127.3	1114.4	1113.1
37.5°	1083.3	1070.3	1075.5	1063.8	1063.8
40°	1027.5	1019.8	1021.1	1012.0	1009.4
42.5°	975.7	966.6	967.9	958.9	958.9
45°	922.6	916.1	916.1	907.0	907.0
47.5°	866.9	861.7	860.4	852.6	852.6
50°	808.6	804.7	803.4	796.9	795.6
52.5°	747.7	746.4	741.2	736.0	736.0
55°	684.2	681.6	675.1	671.2	669.9
57.5°	616.8	611.6	605.1	598.6	599.9
60°	542.9	537.7	527.4	524.8	524.8
62.5°	471.7	465.2	454.8	450.9	453.5
65°	404.3	396.5	387.4	384.8	386.1
67.5°	342.1	334.3	323.9	323.9	322.6
70°	282.5	278.6	270.8	270.8	270.8
72.5°	229.4	228.1	222.9	222.9	221.6
75°	184.0	184.0	181.4	180.1	178.8
77.5°	145.1	145.1	143.8	142.5	139.9
80°	108.8	111.4	110.1	108.8	107.5
82.5°	75.2	77.7	77.7	75.2	75.2
85°	42.8	46.6	46.6	46.6	46.6
87.5°	14.3	19.4	20.7	20.7	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)