

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: P688587

Luminaire Tested: SQ4R-PR1-100D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688587
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109.1 lumens
Efficiency: N/A
Efficacy: 84.0 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

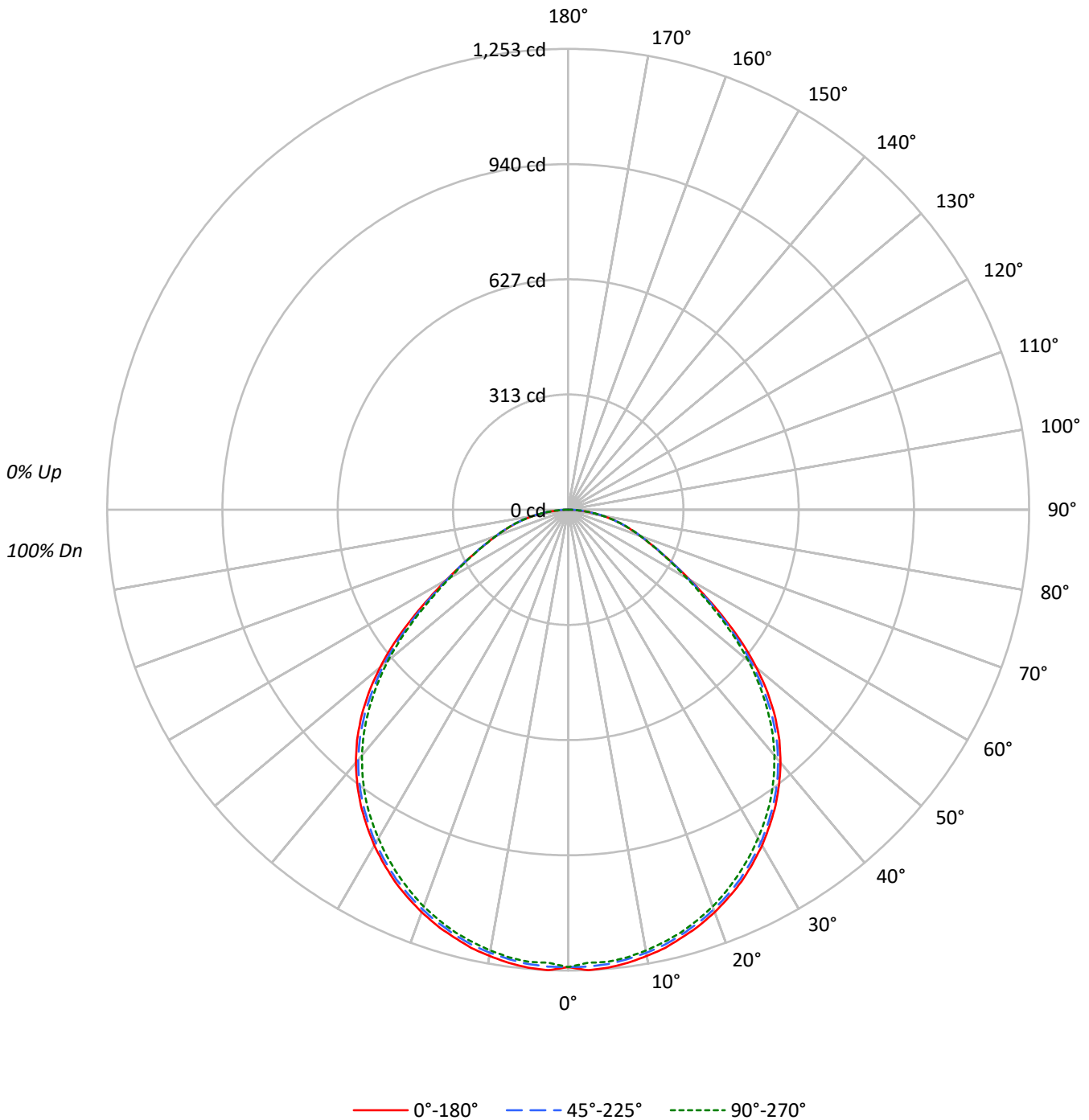
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	11973	11973	11973
5°	12081	11987	11926
10°	12043	11959	11896
15°	11989	11915	11851
20°	11930	11853	11765
25°	11845	11766	11630
30°	11717	11634	11468
35°	11545	11444	11280
40°	11282	11160	10958
45°	10821	10632	10413
50°	10011	9771	9578
55°	8738	8540	8360
60°	7363	7301	7157
65°	6369	6394	6344
70°	5849	5880	5880
75°	5617	5617	5658
80°	5284	5345	5284
85°	4264	4728	4728

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.8
10°-20°	336.7	10.8
20°-30°	507.8	16.3
30°-40°	605.1	19.5
40°-50°	597.0	19.2
50°-60°	455.4	14.6
60°-70°	281.1	9.0
70°-80°	160.1	5.2
80°-90°	48.3	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°	962.1	30.9
0°-40°	1567.3	50.4
0°-60°	2619.6	84.3
0°-90°	3109.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1250	1236	1240	1236	1234	119
15°	1203	1190	1195	1191	1189	340
25°	1115	1101	1108	1096	1095	513
35°	982	970	974	961	960	613
45°	795	784	781	767	765	610
55°	521	512	509	500	498	466
65°	280	277	281	278	278	282
75°	151	151	151	152	152	159
85°	39	41	43	43	43	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1253.3	1239.4	1243.6	1240.4	1232.9
5°	1250.1	1236.1	1240.4	1236.1	1234.0
7.5°	1242.6	1228.6	1232.9	1228.6	1227.6
10°	1231.9	1219.0	1223.3	1219.0	1216.9
12.5°	1220.1	1206.2	1211.5	1206.2	1204.0
15°	1202.9	1190.1	1195.4	1191.2	1189.0
17.5°	1185.8	1171.9	1177.2	1172.9	1169.7
20°	1164.4	1151.5	1156.9	1149.4	1148.3
22.5°	1140.8	1128.0	1133.3	1122.6	1122.6
25°	1115.1	1101.2	1107.6	1095.8	1094.8
27.5°	1085.1	1072.3	1077.6	1065.8	1064.8
30°	1054.0	1041.2	1046.5	1033.7	1031.6
32.5°	1018.7	1006.9	1011.2	998.3	997.3
35°	982.3	970.5	973.7	960.9	959.8
37.5°	941.6	930.9	933.0	919.1	918.0
40°	897.7	886.9	888.0	873.0	871.9
42.5°	849.4	838.7	837.7	822.7	821.6
45°	794.8	784.1	780.9	767.0	764.8
47.5°	734.8	724.1	717.7	705.9	704.8
50°	668.4	657.7	652.4	642.7	639.5
52.5°	596.6	585.9	581.7	573.1	569.9
55°	520.6	512.0	508.8	500.2	498.1
57.5°	447.8	441.3	440.3	431.7	430.6
60°	382.4	379.2	379.2	371.7	371.7
62.5°	326.7	324.6	326.7	322.4	321.4
65°	279.6	277.4	280.7	278.5	278.5
67.5°	239.9	239.9	242.1	241.0	241.0
70°	207.8	207.8	208.9	208.9	208.9
72.5°	178.9	177.8	181.0	181.0	180.0
75°	151.0	151.0	151.0	152.1	152.1
77.5°	123.2	123.2	124.3	124.3	123.2
80°	95.3	96.4	96.4	95.3	95.3
82.5°	67.5	68.6	68.6	68.6	67.5
85°	38.6	40.7	42.8	42.8	42.8
87.5°	13.9	18.2	21.4	21.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)