

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: P688551

Luminaire Tested: SQ4R-PP3-100D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688551
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 3143.4 lumens
Efficiency: N/A
Efficacy: 85.0 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

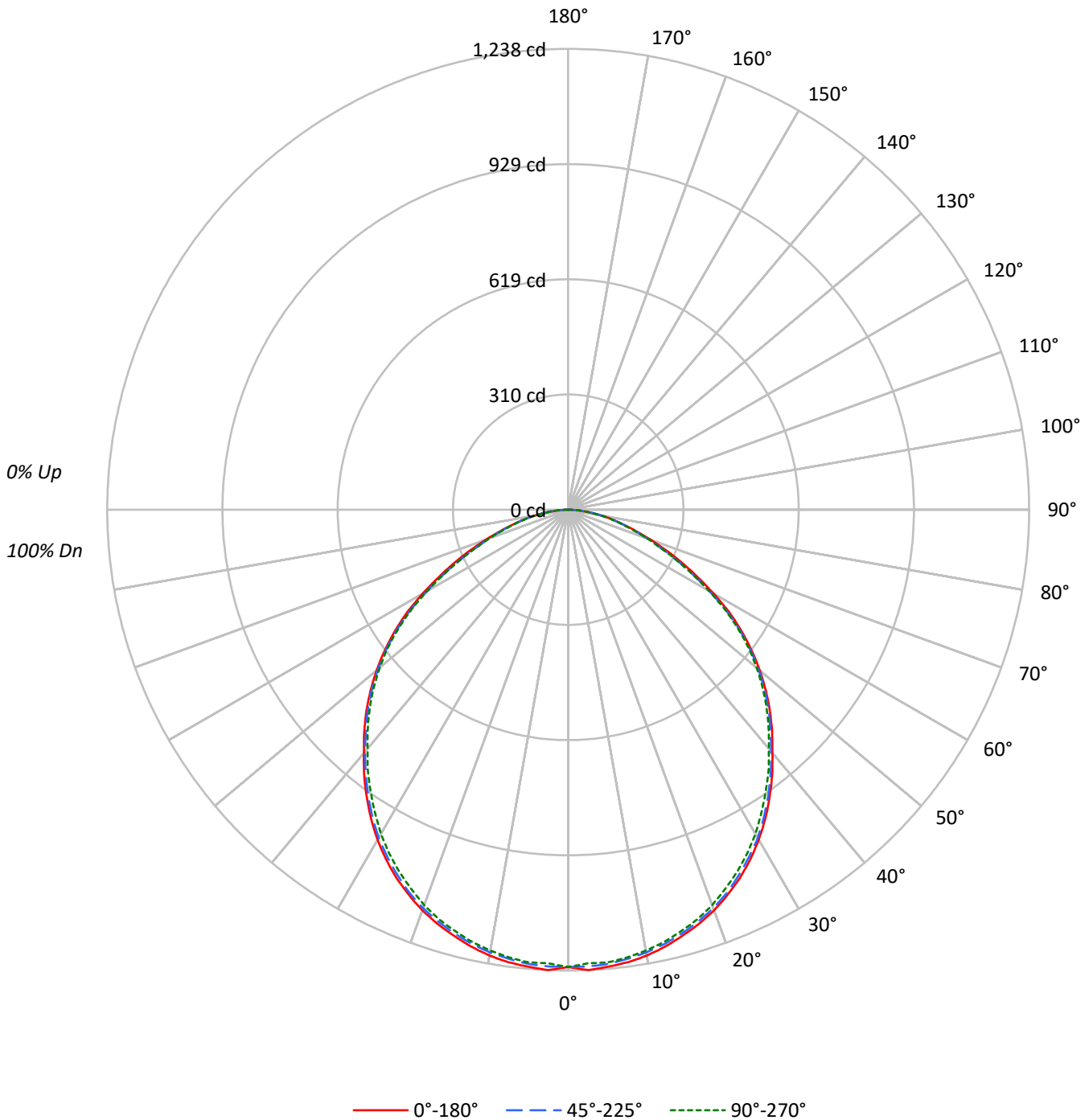
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	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°	11824	11824	11824
5°	11911	11839	11797
10°	11891	11807	11754
15°	11813	11748	11683
20°	11734	11668	11580
25°	11595	11515	11400
30°	11380	11320	11177
35°	11083	11007	10868
40°	10728	10660	10538
45°	10435	10361	10259
50°	10060	9996	9899
55°	9540	9413	9341
60°	8684	8435	8395
65°	7650	7333	7308
70°	6606	6333	6333
75°	5687	5606	5524
80°	5012	5073	4951
85°	3921	4286	4286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	3.7
10°-20°	331.8	10.6
20°-30°	497.0	15.8
30°-40°	582.9	18.5
40°-50°	584.7	18.6
50°-60°	499.3	15.9
60°-70°	324.5	10.3
70°-80°	162.5	5.2
80°-90°	44.6	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°	945.0	30.1
0°-40°	1527.9	48.6
0°-60°	2611.9	83.1
0°-90°	3143.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1232	1221	1225	1221	1221	117
15°	1185	1173	1179	1174	1172	335
25°	1092	1079	1084	1074	1073	502
35°	943	933	936	926	925	589
45°	766	761	761	754	754	590
55°	568	566	561	558	556	506
65°	336	329	322	320	321	335
75°	153	153	151	150	148	165
85°	36	39	39	39	39	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.2	1228.2	1228.2	1228.2	1228.2
2.5°	1237.9	1225.0	1228.2	1226.1	1219.6
5°	1232.5	1220.7	1225.0	1220.7	1220.7
7.5°	1226.1	1213.1	1217.5	1213.1	1213.1
10°	1216.4	1203.5	1207.8	1203.5	1202.4
12.5°	1202.4	1189.5	1194.8	1189.5	1189.5
15°	1185.2	1173.3	1178.7	1174.4	1172.2
17.5°	1166.9	1153.9	1160.4	1155.0	1153.9
20°	1145.3	1132.4	1138.9	1130.3	1130.3
22.5°	1119.5	1106.6	1114.1	1102.3	1102.3
25°	1091.5	1078.6	1084.0	1074.3	1073.2
27.5°	1059.2	1046.3	1051.7	1040.9	1040.9
30°	1023.7	1011.9	1018.3	1006.5	1005.4
32.5°	984.9	974.2	978.5	966.6	965.6
35°	943.0	933.3	936.5	925.7	924.7
37.5°	899.9	889.1	893.4	883.8	883.8
40°	853.6	847.2	848.2	840.7	838.5
42.5°	810.6	803.0	804.1	796.6	796.6
45°	766.4	761.0	761.0	753.5	753.5
47.5°	720.1	715.8	714.8	708.3	708.3
50°	671.7	668.5	667.4	662.0	660.9
52.5°	621.1	620.0	615.7	611.4	611.4
55°	568.4	566.2	560.8	557.6	556.5
57.5°	512.4	508.1	502.7	497.3	498.4
60°	451.0	446.7	438.1	436.0	436.0
62.5°	391.8	386.4	377.8	374.6	376.8
65°	335.8	329.4	321.9	319.7	320.8
67.5°	284.2	277.7	269.1	269.1	268.0
70°	234.7	231.4	225.0	225.0	225.0
72.5°	190.5	189.5	185.1	185.1	184.1
75°	152.9	152.9	150.7	149.6	148.5
77.5°	120.6	120.6	119.5	118.4	116.3
80°	90.4	92.6	91.5	90.4	89.3
82.5°	62.4	64.6	64.6	62.4	62.4
85°	35.5	38.8	38.8	38.8	38.8
87.5°	11.8	16.1	17.2	17.2	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)