

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: P688539

Luminaire Tested: SQ4R-PP3-050D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688539
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-PP3-050D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1614.4 lumens
Efficiency: N/A
Efficacy: 85.4 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

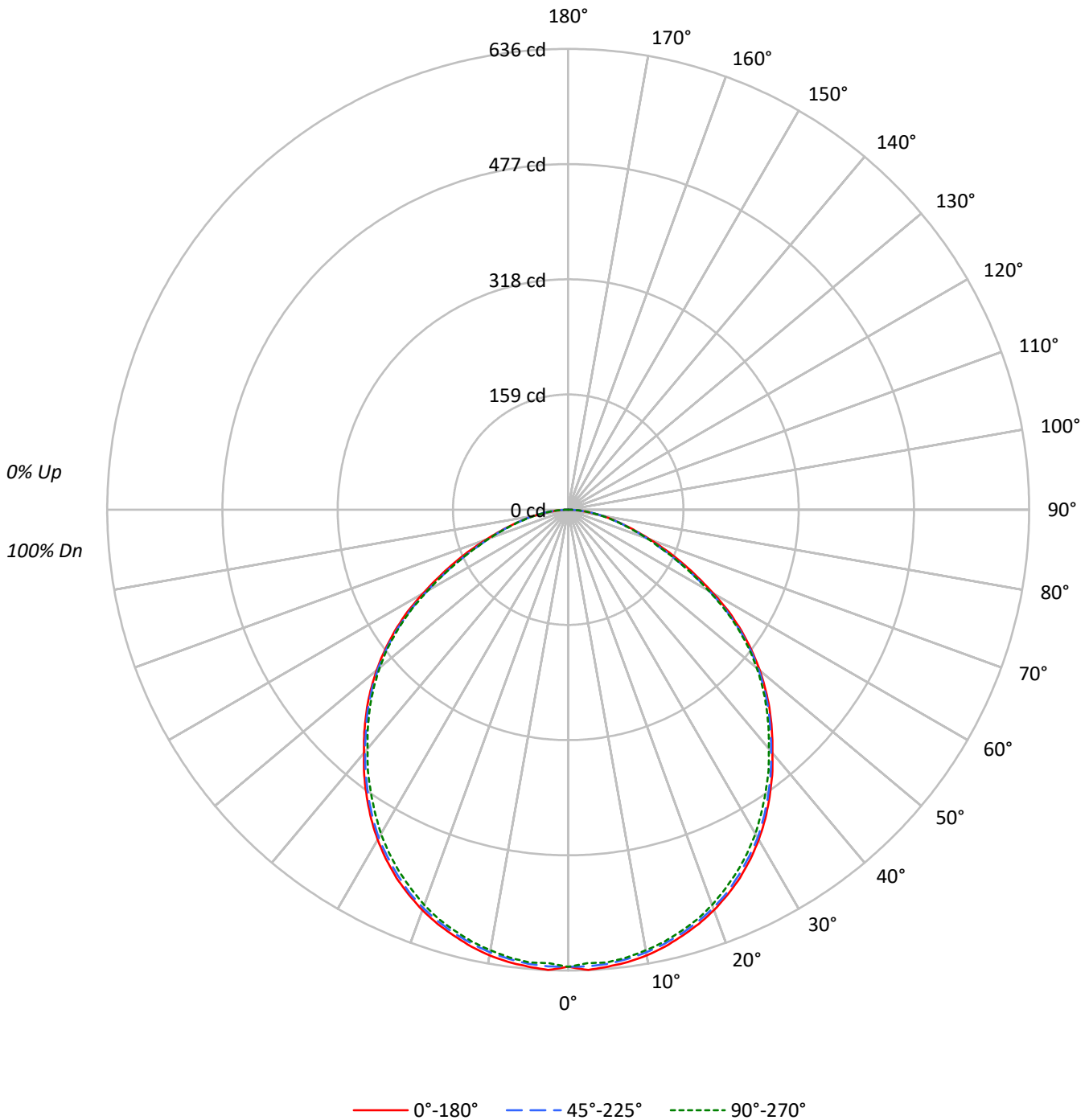
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	6073	6073	6073
5°	6117	6080	6058
10°	6107	6064	6037
15°	6067	6034	6001
20°	6026	5992	5947
25°	5955	5914	5855
30°	5845	5814	5741
35°	5692	5653	5581
40°	5510	5474	5413
45°	5359	5322	5269
50°	5167	5134	5085
55°	4899	4834	4797
60°	4459	4332	4311
65°	3930	3766	3754
70°	3392	3251	3251
75°	2920	2879	2838
80°	2572	2606	2545
85°	2010	2198	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	3.7
10°-20°	170.4	10.6
20°-30°	255.3	15.8
30°-40°	299.4	18.5
40°-50°	300.3	18.6
50°-60°	256.4	15.9
60°-70°	166.7	10.3
70°-80°	83.4	5.2
80°-90°	22.9	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°	485.4	30.1
0°-40°	784.7	48.6
0°-60°	1341.5	83.1
0°-90°	1614.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1614.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	633	627	629	627	627	60
15°	609	603	605	603	602	172
25°	561	554	557	552	551	258
35°	484	479	481	476	475	303
45°	394	391	391	387	387	303
55°	292	291	288	286	286	260
65°	172	169	165	164	165	172
75°	78	78	77	77	76	85
85°	18	20	20	20	20	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	630.8	630.8	630.8	630.8	630.8
2.5°	635.8	629.1	630.8	629.7	626.4
5°	633.0	626.9	629.1	626.9	626.9
7.5°	629.7	623.1	625.3	623.1	623.1
10°	624.7	618.1	620.3	618.1	617.5
12.5°	617.5	610.9	613.7	610.9	610.9
15°	608.7	602.6	605.4	603.2	602.1
17.5°	599.3	592.7	596.0	593.2	592.7
20°	588.2	581.6	584.9	580.5	580.5
22.5°	575.0	568.3	572.2	566.1	566.1
25°	560.6	554.0	556.7	551.7	551.2
27.5°	544.0	537.4	540.1	534.6	534.6
30°	525.8	519.7	523.0	516.9	516.4
32.5°	505.9	500.3	502.5	496.5	495.9
35°	484.3	479.3	481.0	475.5	474.9
37.5°	462.2	456.7	458.9	453.9	453.9
40°	438.4	435.1	435.6	431.8	430.7
42.5°	416.3	412.4	413.0	409.1	409.1
45°	393.6	390.9	390.9	387.0	387.0
47.5°	369.9	367.6	367.1	363.8	363.8
50°	345.0	343.3	342.8	340.0	339.5
52.5°	319.0	318.4	316.2	314.0	314.0
55°	291.9	290.8	288.0	286.4	285.8
57.5°	263.2	260.9	258.2	255.4	256.0
60°	231.6	229.4	225.0	223.9	223.9
62.5°	201.2	198.5	194.1	192.4	193.5
65°	172.5	169.2	165.3	164.2	164.8
67.5°	146.0	142.6	138.2	138.2	137.7
70°	120.5	118.9	115.5	115.5	115.5
72.5°	97.9	97.3	95.1	95.1	94.5
75°	78.5	78.5	77.4	76.8	76.3
77.5°	61.9	61.9	61.4	60.8	59.7
80°	46.4	47.5	47.0	46.4	45.9
82.5°	32.1	33.2	33.2	32.1	32.1
85°	18.2	19.9	19.9	19.9	19.9
87.5°	6.1	8.3	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)