

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: P686072

Luminaire Tested: SQ4R-F-075D-940-1-UNV-STD-W-4

Issue Date: 11/18/2022

Test Information

Test Method: LM-79-2019
Report Number: P686072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-075D-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

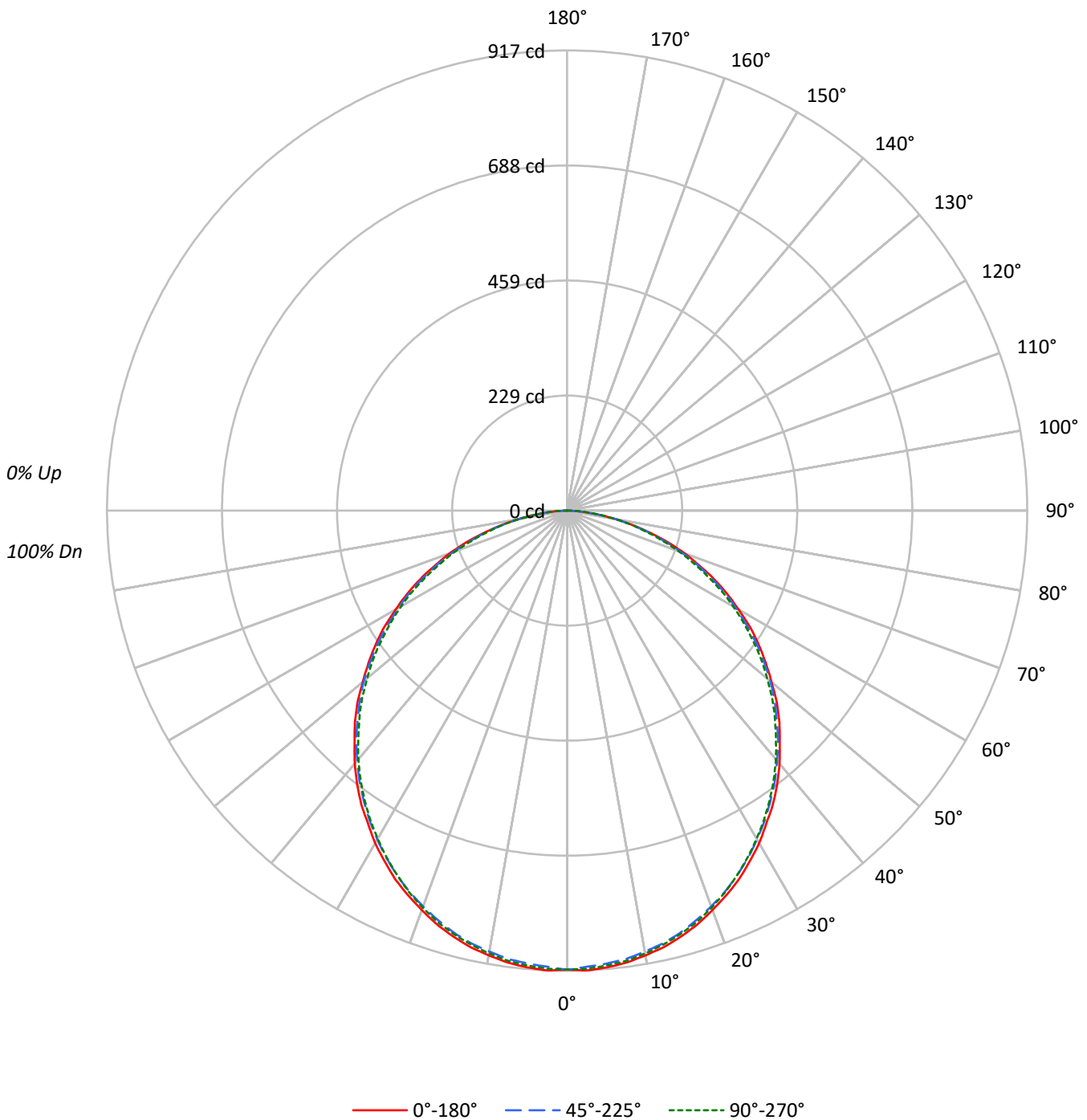
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8829	8756	8792
10°	8796	8722	8759
15°	8755	8680	8705
20°	8678	8600	8625
25°	8610	8516	8516
30°	8508	8410	8395
35°	8403	8300	8270
40°	8276	8180	8134
45°	8145	8041	7973
50°	7962	7923	7791
55°	7825	7719	7593
60°	7598	7477	7355
65°	7358	7185	7014
70°	7003	6792	6649
75°	6357	6216	6078
80°	5433	5433	5367
85°	3888	4164	4164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.4
10°-20°	246.8	9.7
20°-30°	370.9	14.5
30°-40°	443.2	17.4
40°-50°	456.7	17.9
50°-60°	411.0	16.1
60°-70°	312.4	12.3
70°-80°	177.6	7.0
80°-90°	44.9	1.8
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°	704.1	27.6
0°-40°	1147.4	45.0
0°-60°	2015.1	79.0
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	914	912	906	914	910	87
15°	878	877	871	876	873	248
25°	810	808	802	804	802	373
35°	715	712	706	706	704	447
45°	598	598	591	587	586	461
55°	466	465	460	456	452	416
65°	323	322	315	312	308	319
75°	171	170	167	166	163	182
85°	35	36	38	38	38	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.8	914.8	914.8	914.8	914.8
2.5°	917.3	914.8	909.8	916.1	913.6
5°	913.6	912.3	906.0	913.6	909.8
7.5°	908.5	907.3	901.0	907.3	904.8
10°	899.8	898.5	892.2	898.5	896.0
12.5°	891.0	889.7	883.4	888.4	885.9
15°	878.4	877.1	870.9	875.9	873.4
17.5°	864.6	863.3	855.8	860.8	859.5
20°	847.0	845.7	839.4	843.2	841.9
22.5°	829.4	828.1	821.8	825.6	823.1
25°	810.5	808.0	801.7	804.2	801.7
27.5°	787.9	786.7	780.4	781.6	779.1
30°	765.3	764.0	756.5	757.8	755.2
32.5°	738.9	738.9	732.6	732.6	730.1
35°	715.0	712.5	706.2	706.2	703.7
37.5°	687.4	684.9	679.8	678.6	676.1
40°	658.5	657.2	650.9	649.7	647.2
42.5°	627.1	628.3	622.0	618.3	615.8
45°	598.2	598.2	590.6	586.9	585.6
47.5°	566.7	566.7	560.5	556.7	554.2
50°	531.6	534.1	529.0	522.8	520.2
52.5°	498.9	500.1	493.9	490.1	487.6
55°	466.2	465.0	459.9	456.2	452.4
57.5°	432.3	431.0	423.5	419.7	417.2
60°	394.6	394.6	388.3	384.5	382.0
62.5°	359.4	358.1	353.1	348.1	346.8
65°	323.0	321.7	315.4	311.6	307.9
67.5°	284.0	282.7	279.0	273.9	271.4
70°	248.8	245.0	241.3	237.5	236.2
72.5°	211.1	207.3	203.6	201.1	198.5
75°	170.9	169.6	167.1	165.9	163.4
77.5°	134.5	134.5	131.9	130.7	130.7
80°	98.0	98.0	98.0	96.8	96.8
82.5°	64.1	65.3	65.3	64.1	65.3
85°	35.2	36.4	37.7	37.7	37.7
87.5°	11.3	15.1	13.8	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)