

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: P688810

Luminaire Tested: SQ4R-PP3-050D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688810
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-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2022.5 lumens
Efficiency: N/A
Efficacy: 95.0 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

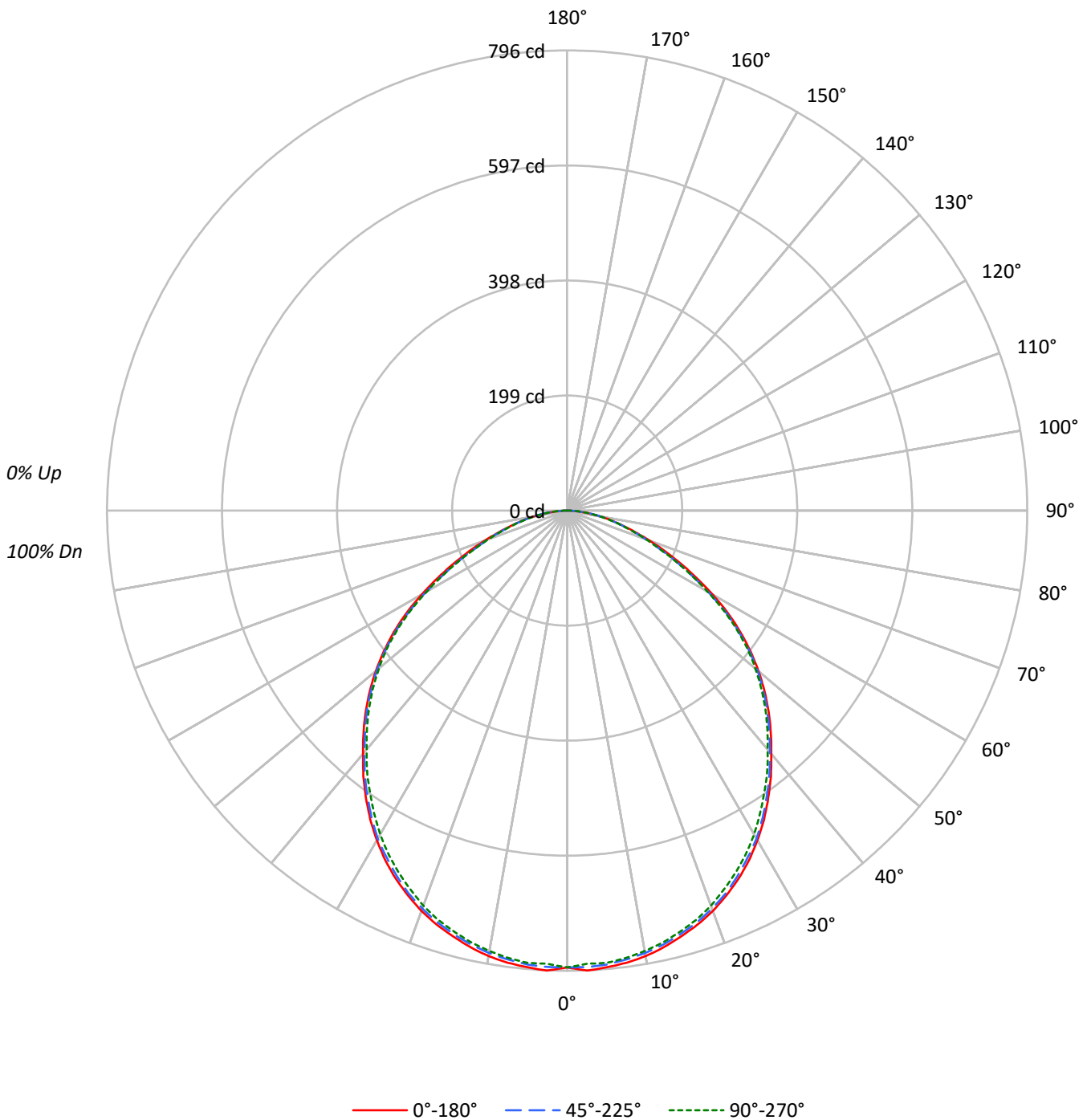
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7608	7608	7608
5°	7664	7617	7590
10°	7651	7597	7563
15°	7600	7559	7517
20°	7550	7507	7450
25°	7460	7408	7335
30°	7321	7284	7191
35°	7130	7081	6992
40°	6902	6859	6780
45°	6714	6667	6601
50°	6473	6431	6368
55°	6138	6056	6011
60°	5588	5428	5401
65°	4923	4718	4702
70°	4250	4073	4073
75°	3656	3608	3556
80°	3227	3266	3188
85°	2530	2750	2750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6714 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.7
10°-20°	213.5	10.6
20°-30°	319.8	15.8
30°-40°	375.0	18.5
40°-50°	376.2	18.6
50°-60°	321.2	15.9
60°-70°	208.8	10.3
70°-80°	104.6	5.2
80°-90°	28.7	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°	608.0	30.1
0°-40°	983.1	48.6
0°-60°	1680.5	83.1
0°-90°	2022.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	793	785	788	785	785	75
15°	762	755	758	756	754	215
25°	702	694	697	691	690	323
35°	607	600	602	596	595	379
45°	493	490	490	485	485	380
55°	366	364	361	359	358	325
65°	216	212	207	206	206	215
75°	98	98	97	96	96	106
85°	23	25	25	25	25	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.2	790.2	790.2	790.2	790.2
2.5°	796.5	788.2	790.2	788.8	784.7
5°	793.0	785.4	788.2	785.4	785.4
7.5°	788.8	780.5	783.3	780.5	780.5
10°	782.6	774.3	777.1	774.3	773.6
12.5°	773.6	765.3	768.8	765.3	765.3
15°	762.5	754.9	758.4	755.6	754.2
17.5°	750.8	742.4	746.6	743.1	742.4
20°	736.9	728.6	732.7	727.2	727.2
22.5°	720.3	712.0	716.8	709.2	709.2
25°	702.3	694.0	697.4	691.2	690.5
27.5°	681.5	673.2	676.6	669.7	669.7
30°	658.6	651.0	655.2	647.6	646.9
32.5°	633.7	626.8	629.6	621.9	621.2
35°	606.7	600.5	602.5	595.6	594.9
37.5°	579.0	572.1	574.8	568.6	568.6
40°	549.2	545.1	545.8	540.9	539.5
42.5°	521.5	516.7	517.4	512.5	512.5
45°	493.1	489.7	489.7	484.8	484.8
47.5°	463.3	460.6	459.9	455.7	455.7
50°	432.2	430.1	429.4	425.9	425.2
52.5°	399.6	398.9	396.2	393.4	393.4
55°	365.7	364.3	360.8	358.8	358.1
57.5°	329.7	326.9	323.4	320.0	320.7
60°	290.2	287.4	281.9	280.5	280.5
62.5°	252.1	248.6	243.1	241.0	242.4
65°	216.1	211.9	207.1	205.7	206.4
67.5°	182.8	178.7	173.1	173.1	172.5
70°	151.0	148.9	144.7	144.7	144.7
72.5°	122.6	121.9	119.1	119.1	118.4
75°	98.3	98.3	97.0	96.3	95.6
77.5°	77.6	77.6	76.9	76.2	74.8
80°	58.2	59.6	58.9	58.2	57.5
82.5°	40.2	41.6	41.6	40.2	40.2
85°	22.9	24.9	24.9	24.9	24.9
87.5°	7.6	10.4	11.1	11.1	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)