

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: P688882

Luminaire Tested: SQ4R-PR1-050D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688882
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-PR1-050D-92765-1-UNV-STD-W-4_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.4 lumens
Efficiency: N/A
Efficacy: 88.5 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

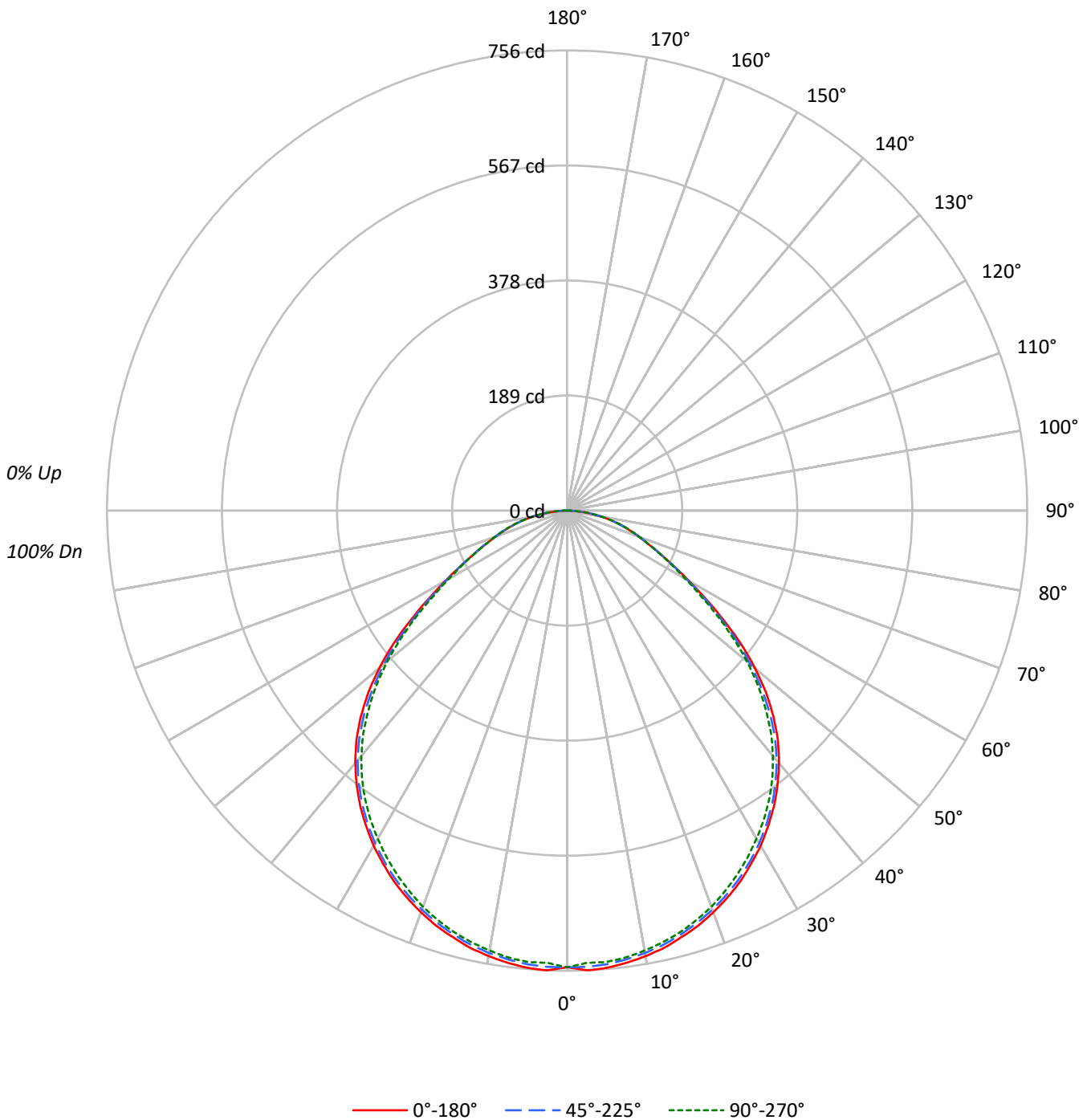
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7222	7222	7222
5°	7287	7231	7193
10°	7264	7214	7175
15°	7232	7187	7148
20°	7195	7149	7097
25°	7145	7097	7014
30°	7068	7018	6917
35°	6964	6902	6804
40°	6805	6731	6611
45°	6527	6413	6281
50°	6039	5894	5777
55°	5270	5151	5044
60°	4442	4404	4317
65°	3841	3857	3827
70°	3527	3547	3547
75°	3389	3389	3415
80°	3188	3227	3188
85°	2574	2850	2850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.8
10°-20°	203.1	10.8
20°-30°	306.3	16.3
30°-40°	365.0	19.5
40°-50°	360.1	19.2
50°-60°	274.7	14.6
60°-70°	169.5	9.0
70°-80°	96.6	5.2
80°-90°	29.1	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°	580.3	30.9
0°-40°	945.4	50.4
0°-60°	1580.1	84.3
0°-90°	1875.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	754	746	748	746	744	72
15°	726	718	721	718	717	205
25°	673	664	668	661	660	310
35°	592	585	587	580	579	370
45°	479	473	471	463	461	368
55°	314	309	307	302	300	281
65°	169	167	169	168	168	170
75°	91	91	91	92	92	96
85°	23	25	26	26	26	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.2	750.2	750.2	750.2	750.2
2.5°	756.0	747.6	750.2	748.2	743.7
5°	754.0	745.6	748.2	745.6	744.3
7.5°	749.5	741.1	743.7	741.1	740.5
10°	743.1	735.3	737.9	735.3	734.0
12.5°	735.9	727.5	730.8	727.5	726.3
15°	725.6	717.9	721.1	718.5	717.2
17.5°	715.3	706.9	710.1	707.5	705.6
20°	702.3	694.6	697.8	693.3	692.7
22.5°	688.1	680.4	683.6	677.1	677.1
25°	672.6	664.2	668.1	661.0	660.3
27.5°	654.5	646.8	650.0	642.9	642.3
30°	635.8	628.0	631.3	623.5	622.2
32.5°	614.5	607.4	609.9	602.2	601.5
35°	592.5	585.4	587.3	579.6	578.9
37.5°	567.9	561.5	562.8	554.4	553.7
40°	541.5	535.0	535.6	526.6	526.0
42.5°	512.4	505.9	505.3	496.2	495.6
45°	479.4	473.0	471.0	462.6	461.3
47.5°	443.2	436.8	432.9	425.8	425.2
50°	403.2	396.7	393.5	387.7	385.7
52.5°	359.9	353.4	350.8	345.7	343.7
55°	314.0	308.9	306.9	301.7	300.5
57.5°	270.1	266.2	265.6	260.4	259.7
60°	230.7	228.7	228.7	224.2	224.2
62.5°	197.1	195.8	197.1	194.5	193.8
65°	168.6	167.3	169.3	168.0	168.0
67.5°	144.7	144.7	146.0	145.4	145.4
70°	125.3	125.3	126.0	126.0	126.0
72.5°	107.9	107.3	109.2	109.2	108.5
75°	91.1	91.1	91.1	91.8	91.8
77.5°	74.3	74.3	75.0	75.0	74.3
80°	57.5	58.2	58.2	57.5	57.5
82.5°	40.7	41.4	41.4	41.4	40.7
85°	23.3	24.6	25.8	25.8	25.8
87.5°	8.4	11.0	12.9	12.9	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)