

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: P688805

Luminaire Tested: SQ4R-PP3-050D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688805
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-92765-1-UNV-STD-W-4_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2019.1 lumens
Efficiency: N/A
Efficacy: 95.2 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

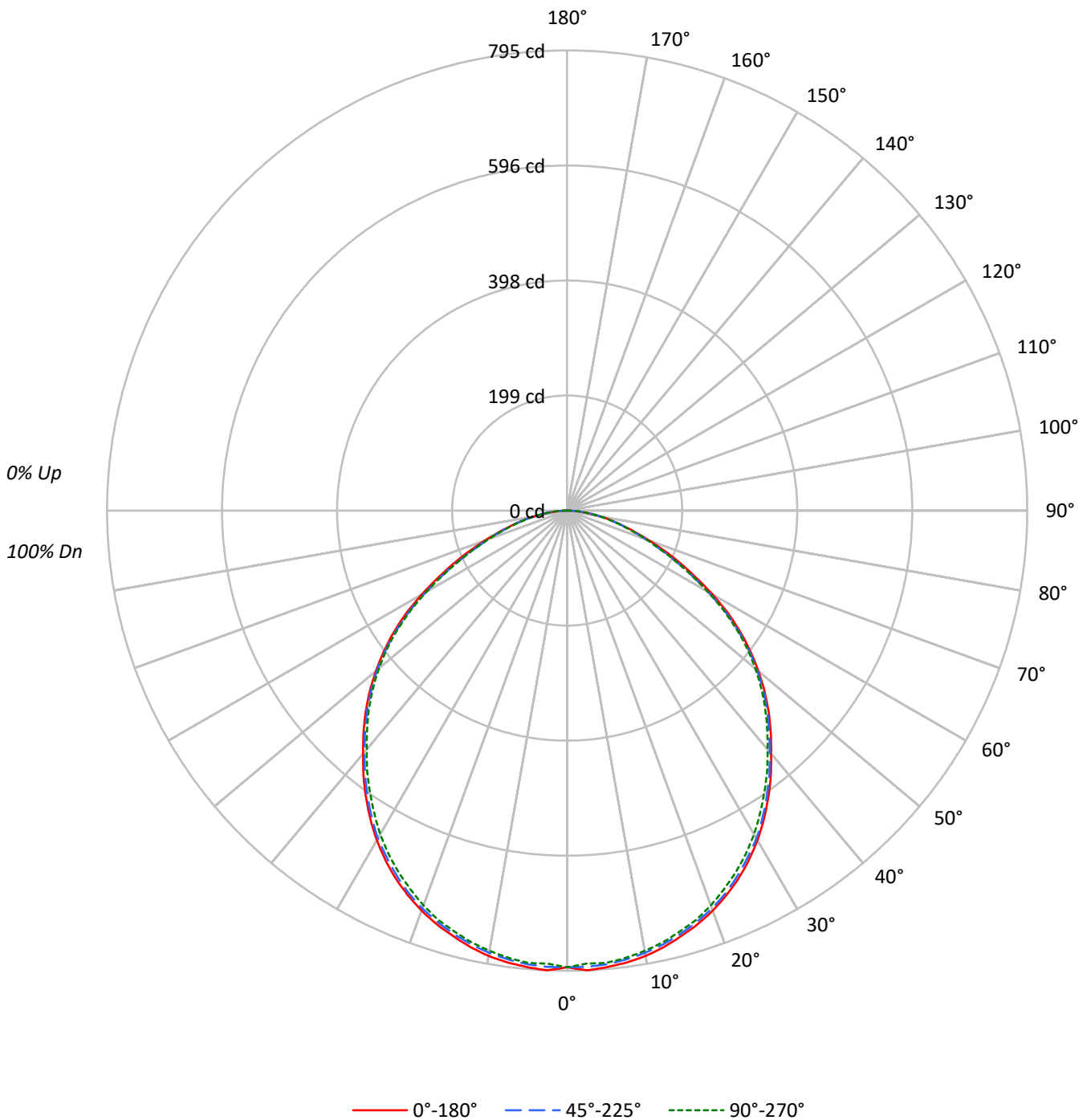
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7595	7595	7595
5°	7651	7604	7578
10°	7638	7584	7550
15°	7587	7546	7504
20°	7537	7494	7438
25°	7448	7397	7322
30°	7309	7271	7179
35°	7119	7069	6980
40°	6891	6847	6769
45°	6703	6655	6590
50°	6461	6421	6358
55°	6128	6046	6001
60°	5578	5418	5391
65°	4914	4709	4693
70°	4242	4067	4067
75°	3653	3601	3549
80°	3221	3260	3182
85°	2519	2750	2750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.7
10°-20°	213.1	10.6
20°-30°	319.2	15.8
30°-40°	374.4	18.5
40°-50°	375.6	18.6
50°-60°	320.7	15.9
60°-70°	208.4	10.3
70°-80°	104.4	5.2
80°-90°	28.6	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°	607.0	30.1
0°-40°	981.4	48.6
0°-60°	1677.7	83.1
0°-90°	2019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	792	784	787	784	784	75
15°	761	754	757	754	753	215
25°	701	693	696	690	689	323
35°	606	600	602	595	594	379
45°	492	489	489	484	484	379
55°	365	364	360	358	358	325
65°	216	212	207	205	206	215
75°	98	98	97	96	95	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°	788.9	788.9	788.9	788.9	788.9
2.5°	795.1	786.8	788.9	787.5	783.4
5°	791.7	784.1	786.8	784.1	784.1
7.5°	787.5	779.2	782.0	779.2	779.2
10°	781.3	773.0	775.8	773.0	772.3
12.5°	772.3	764.0	767.5	764.0	764.0
15°	761.2	753.6	757.1	754.3	752.9
17.5°	749.5	741.2	745.3	741.9	741.2
20°	735.7	727.4	731.5	726.0	726.0
22.5°	719.1	710.8	715.6	708.0	708.0
25°	701.1	692.8	696.3	690.0	689.3
27.5°	680.4	672.1	675.5	668.6	668.6
30°	657.5	649.9	654.1	646.5	645.8
32.5°	632.6	625.7	628.5	620.9	620.2
35°	605.7	599.5	601.5	594.6	593.9
37.5°	578.0	571.1	573.9	567.7	567.7
40°	548.3	544.1	544.8	540.0	538.6
42.5°	520.6	515.8	516.5	511.6	511.6
45°	492.3	488.8	488.8	484.0	484.0
47.5°	462.6	459.8	459.1	454.9	454.9
50°	431.4	429.4	428.7	425.2	424.5
52.5°	398.9	398.3	395.5	392.7	392.7
55°	365.1	363.7	360.2	358.2	357.5
57.5°	329.1	326.3	322.9	319.4	320.1
60°	289.7	286.9	281.4	280.0	280.0
62.5°	251.7	248.2	242.7	240.6	242.0
65°	215.7	211.6	206.7	205.3	206.0
67.5°	182.5	178.4	172.9	172.9	172.2
70°	150.7	148.7	144.5	144.5	144.5
72.5°	122.4	121.7	118.9	118.9	118.2
75°	98.2	98.2	96.8	96.1	95.4
77.5°	77.4	77.4	76.7	76.1	74.7
80°	58.1	59.5	58.8	58.1	57.4
82.5°	40.1	41.5	41.5	40.1	40.1
85°	22.8	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)