

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: P688651

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-050D-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2153.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

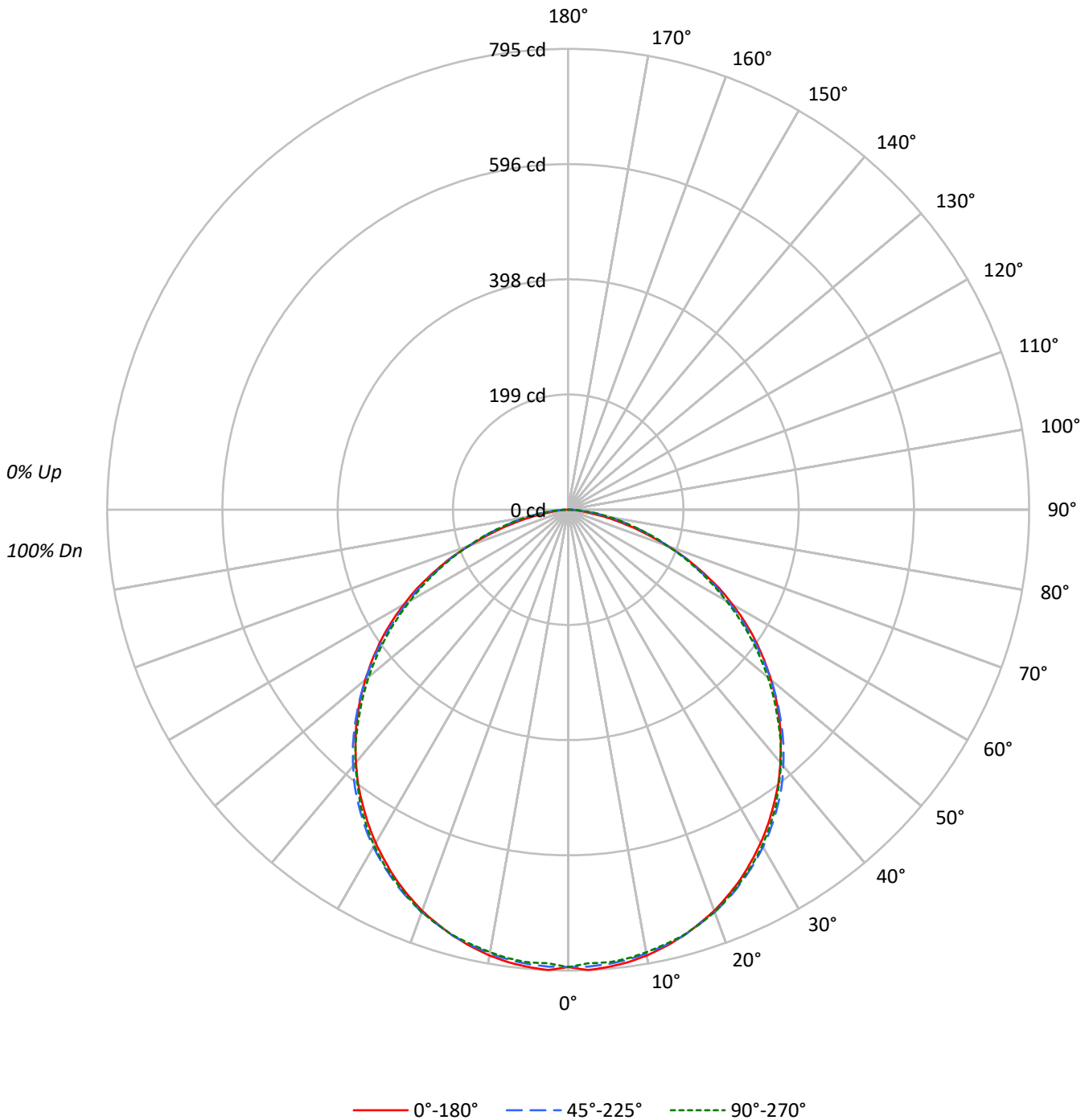
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7596	7596	7596
5°	7653	7604	7576
10°	7634	7599	7577
15°	7594	7594	7587
20°	7545	7567	7567
25°	7473	7527	7504
30°	7381	7472	7439
35°	7273	7384	7333
40°	7152	7253	7180
45°	7023	7072	6963
50°	6839	6839	6729
55°	6622	6536	6437
60°	6302	6175	6077
65°	5825	5709	5659
70°	5101	5140	5120
75°	4103	4538	4564
80°	2916	3848	3886
85°	1778	3225	3225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.5
10°-20°	214.4	10.0
20°-30°	324.7	15.1
30°-40°	389.3	18.1
40°-50°	396.9	18.4
50°-60°	346.4	16.1
60°-70°	248.0	11.5
70°-80°	127.4	5.9
80°-90°	31.9	1.5
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°	613.8	28.5
0°-40°	1003.0	46.6
0°-60°	1746.4	81.1
0°-90°	2153.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	792	784	787	785	784	75
15°	762	755	762	762	761	215
25°	704	698	709	706	706	324
35°	619	617	628	624	624	387
45°	516	514	519	513	511	397
55°	394	389	389	384	384	352
65°	256	250	251	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.0	789.0	789.0	789.0	789.0
2.5°	794.8	786.0	789.0	786.8	783.1
5°	791.9	783.9	786.8	784.6	783.9
7.5°	787.5	779.5	783.1	781.7	780.9
10°	780.9	772.9	777.3	775.8	775.1
12.5°	772.2	764.9	770.0	768.5	768.5
15°	761.9	755.4	761.9	761.9	761.2
17.5°	749.5	743.7	750.3	751.0	750.3
20°	736.4	729.8	738.6	737.8	738.6
22.5°	720.3	715.2	724.7	722.5	723.2
25°	703.5	698.4	708.6	706.4	706.4
27.5°	683.8	680.1	691.1	688.9	688.9
30°	664.0	660.4	672.1	669.2	669.2
32.5°	642.1	639.9	650.9	647.2	647.2
35°	618.8	617.3	628.3	623.9	623.9
37.5°	595.4	593.9	604.1	599.0	596.8
40°	569.1	568.4	577.1	571.3	571.3
42.5°	542.8	542.1	549.4	542.1	542.1
45°	515.8	514.3	519.4	512.8	511.4
47.5°	486.5	485.1	488.7	481.4	480.7
50°	456.6	455.1	456.6	450.0	449.3
52.5°	425.9	423.0	423.0	416.4	416.4
55°	394.5	389.4	389.4	383.5	383.5
57.5°	361.6	355.0	355.8	350.7	349.9
60°	327.3	320.0	320.7	316.3	315.6
62.5°	293.7	284.9	287.1	282.0	282.0
65°	255.7	249.8	250.6	248.4	248.4
67.5°	220.6	214.8	218.4	216.2	216.2
70°	181.2	177.5	182.6	182.6	181.9
72.5°	144.6	145.4	151.9	151.9	152.7
75°	110.3	115.4	122.0	122.7	122.7
77.5°	78.9	87.7	95.0	95.0	95.0
80°	52.6	62.8	69.4	70.9	70.1
82.5°	31.4	42.4	47.5	48.9	48.2
85°	16.1	24.8	29.2	30.0	29.2
87.5°	5.8	12.4	14.6	14.6	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)