

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: P688468

Luminaire Tested: SQ4R-PC3-050D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688468
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-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1723.3 lumens
Efficiency: N/A
Efficacy: 91.2 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

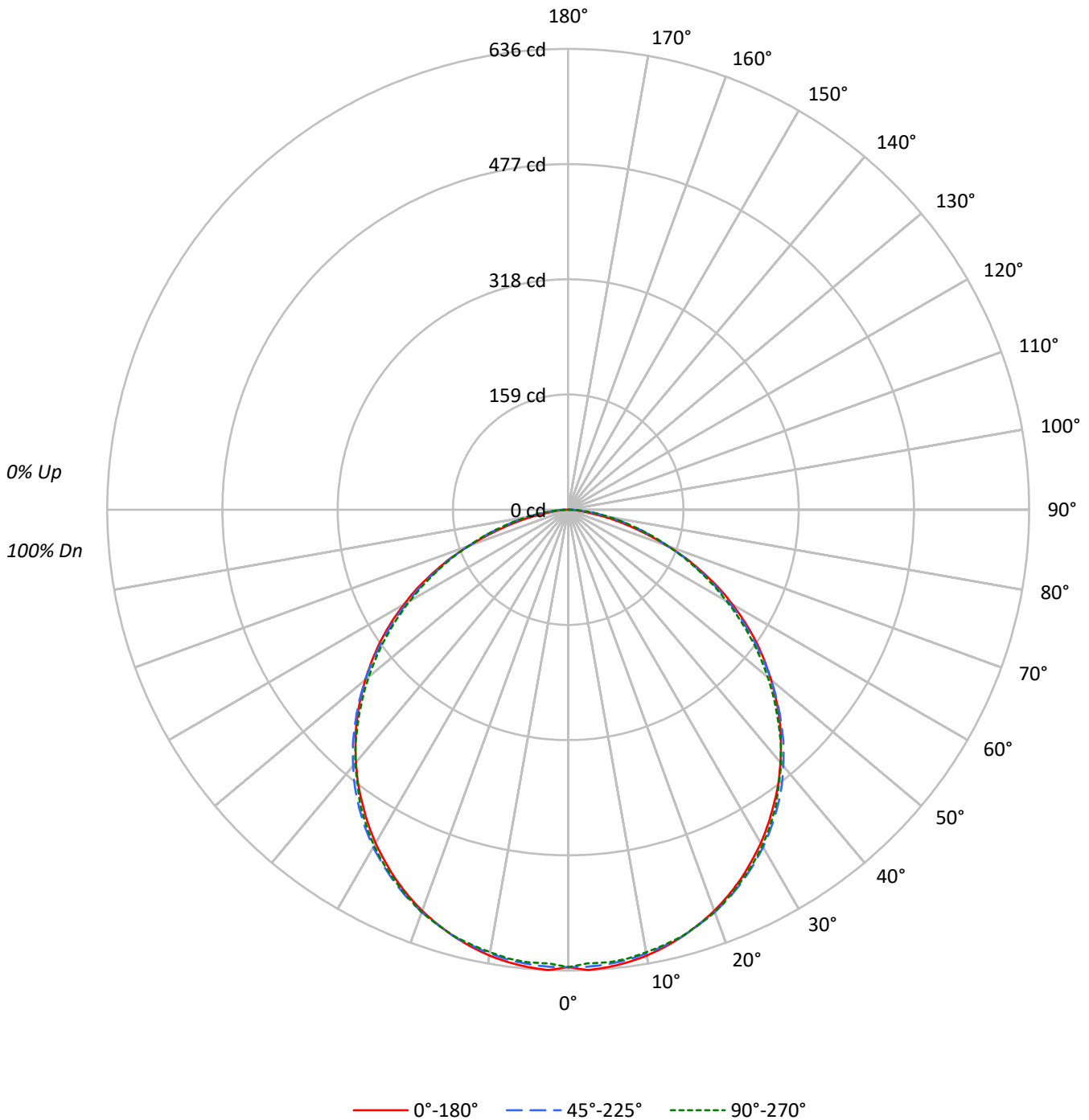
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6078	6078	6078
5°	6124	6085	6061
10°	6109	6081	6063
15°	6077	6077	6071
20°	6036	6055	6055
25°	5979	6023	6005
30°	5907	5979	5953
35°	5819	5908	5867
40°	5723	5804	5745
45°	5619	5658	5571
50°	5473	5473	5384
55°	5299	5230	5151
60°	5043	4941	4862
65°	4661	4567	4529
70°	4082	4112	4098
75°	3285	3630	3653
80°	2334	3077	3110
85°	1425	2585	2585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.5
10°-20°	171.5	10.0
20°-30°	259.8	15.1
30°-40°	311.5	18.1
40°-50°	317.6	18.4
50°-60°	277.2	16.1
60°-70°	198.5	11.5
70°-80°	101.9	5.9
80°-90°	25.5	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°	491.1	28.5
0°-40°	802.6	46.6
0°-60°	1397.4	81.1
0°-90°	1723.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1723.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	631	631	631	631	631	
5°	634	627	630	628	627	60
15°	610	604	610	610	609	172
25°	563	559	567	565	565	259
35°	495	494	503	499	499	310
45°	413	412	416	410	409	318
55°	316	312	312	307	307	282
65°	205	200	200	199	199	203
75°	88	92	98	98	98	95
85°	13	20	23	24	23	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.3	631.3	631.3	631.3	631.3
2.5°	636.0	629.0	631.3	629.6	626.7
5°	633.7	627.2	629.6	627.8	627.2
7.5°	630.2	623.7	626.7	625.5	624.9
10°	624.9	618.5	622.0	620.8	620.2
12.5°	617.9	612.0	616.1	615.0	615.0
15°	609.7	604.4	609.7	609.7	609.1
17.5°	599.8	595.1	600.3	600.9	600.3
20°	589.2	584.0	591.0	590.4	591.0
22.5°	576.4	572.3	579.9	578.1	578.7
25°	562.9	558.8	567.0	565.3	565.3
27.5°	547.2	544.2	553.0	551.2	551.2
30°	531.4	528.4	537.8	535.5	535.5
32.5°	513.8	512.1	520.8	517.9	517.9
35°	495.1	494.0	502.7	499.2	499.2
37.5°	476.4	475.3	483.4	479.3	477.6
40°	455.4	454.8	461.8	457.1	457.1
42.5°	434.3	433.7	439.6	433.7	433.7
45°	412.7	411.5	415.6	410.4	409.2
47.5°	389.3	388.2	391.1	385.2	384.6
50°	365.4	364.2	365.4	360.1	359.5
52.5°	340.8	338.5	338.5	333.2	333.2
55°	315.7	311.6	311.6	306.9	306.9
57.5°	289.4	284.1	284.7	280.6	280.0
60°	261.9	256.0	256.6	253.1	252.5
62.5°	235.0	228.0	229.7	225.6	225.6
65°	204.6	199.9	200.5	198.8	198.8
67.5°	176.5	171.9	174.8	173.0	173.0
70°	145.0	142.0	146.1	146.1	145.6
72.5°	115.7	116.3	121.6	121.6	122.2
75°	88.3	92.4	97.6	98.2	98.2
77.5°	63.1	70.1	76.0	76.0	76.0
80°	42.1	50.3	55.5	56.7	56.1
82.5°	25.1	33.9	38.0	39.2	38.6
85°	12.9	19.9	23.4	24.0	23.4
87.5°	4.7	9.9	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)