

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: P688652

Luminaire Tested: SQ4R-PC3-050D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688652
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-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.9 lumens
Efficiency: N/A
Efficacy: 93.4 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

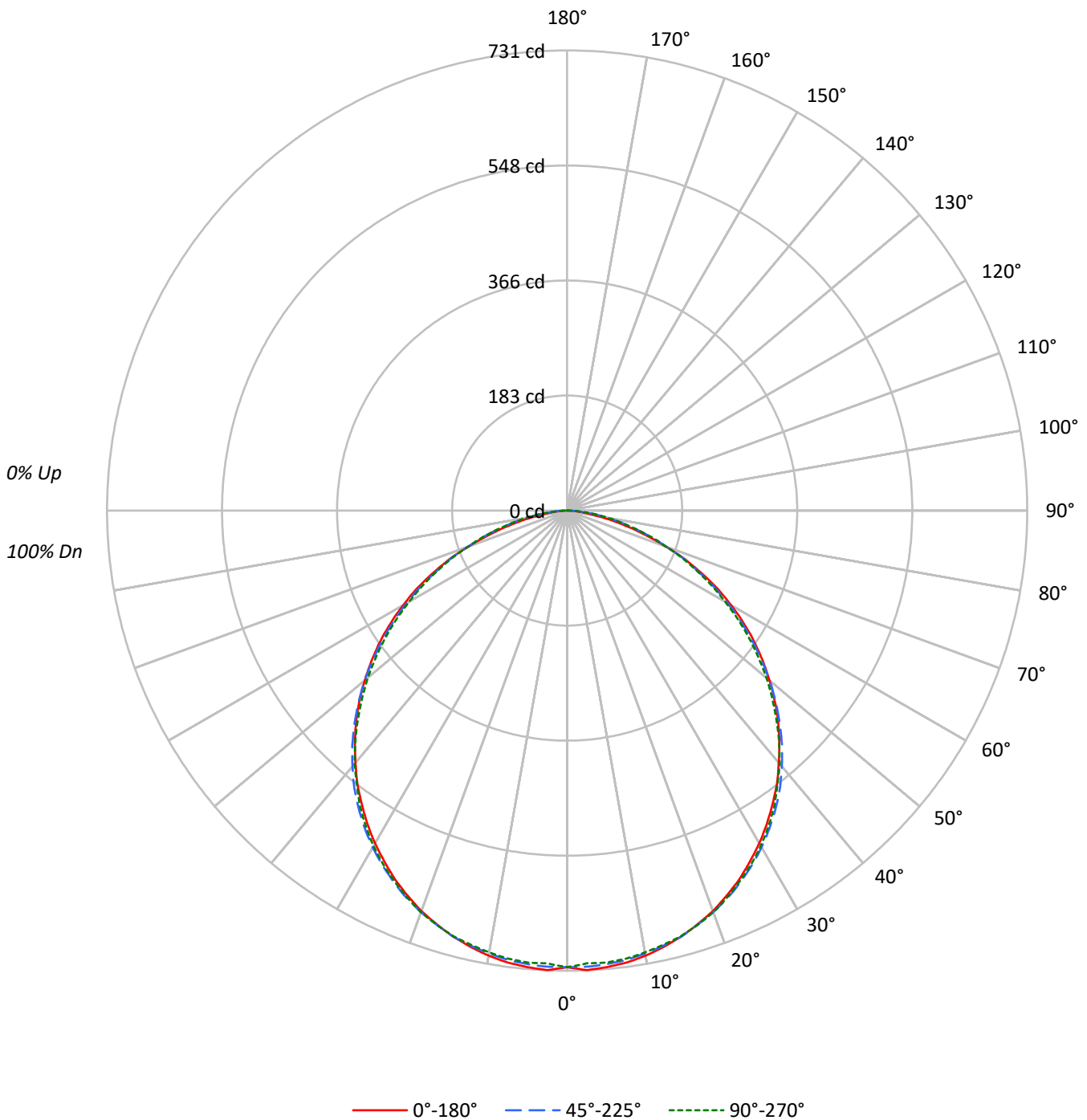
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	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°	6983	6983	6983
5°	7035	6990	6964
10°	7019	6986	6966
15°	6982	6982	6975
20°	6936	6956	6956
25°	6871	6921	6898
30°	6787	6869	6839
35°	6686	6788	6741
40°	6575	6668	6601
45°	6456	6501	6400
50°	6288	6288	6186
55°	6088	6009	5918
60°	5794	5676	5586
65°	5356	5249	5201
70°	4690	4726	4706
75°	3772	4174	4196
80°	2683	3537	3576
85°	1635	2971	2971

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.5
10°-20°	197.1	10.0
20°-30°	298.5	15.1
30°-40°	357.9	18.1
40°-50°	364.9	18.4
50°-60°	318.5	16.1
60°-70°	228.0	11.5
70°-80°	117.1	5.9
80°-90°	29.3	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°	564.2	28.5
0°-40°	922.1	46.6
0°-60°	1605.5	81.1
0°-90°	1979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	728	721	723	721	721	69
15°	700	694	700	700	700	198
25°	647	642	652	649	649	298
35°	569	568	578	574	574	356
45°	474	473	478	472	470	365
55°	363	358	358	353	353	324
65°	235	230	230	228	228	233
75°	101	106	112	113	113	109
85°	15	23	27	28	27	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.3	725.3	725.3	725.3	725.3
2.5°	730.7	722.7	725.3	723.3	720.0
5°	728.0	720.6	723.3	721.3	720.6
7.5°	724.0	716.6	720.0	718.6	718.0
10°	718.0	710.6	714.6	713.3	712.6
12.5°	709.9	703.2	707.9	706.5	706.5
15°	700.5	694.4	700.5	700.5	699.8
17.5°	689.1	683.7	689.7	690.4	689.7
20°	677.0	670.9	679.0	678.3	679.0
22.5°	662.2	657.5	666.2	664.2	664.9
25°	646.8	642.1	651.5	649.4	649.4
27.5°	628.6	625.3	635.3	633.3	633.3
30°	610.5	607.1	617.9	615.2	615.2
32.5°	590.3	588.3	598.4	595.0	595.0
35°	568.9	567.5	577.6	573.6	573.6
37.5°	547.4	546.0	555.4	550.7	548.7
40°	523.2	522.5	530.6	525.2	525.2
42.5°	499.0	498.3	505.1	498.3	498.3
45°	474.2	472.8	477.5	471.5	470.1
47.5°	447.3	446.0	449.3	442.6	441.9
50°	419.8	418.4	419.8	413.7	413.0
52.5°	391.6	388.9	388.9	382.8	382.8
55°	362.7	358.0	358.0	352.6	352.6
57.5°	332.4	326.4	327.1	322.4	321.7
60°	300.9	294.2	294.8	290.8	290.1
62.5°	270.0	261.9	263.9	259.2	259.2
65°	235.1	229.7	230.4	228.3	228.3
67.5°	202.8	197.5	200.8	198.8	198.8
70°	166.6	163.2	167.9	167.9	167.2
72.5°	133.0	133.7	139.7	139.7	140.4
75°	101.4	106.1	112.2	112.8	112.8
77.5°	72.5	80.6	87.3	87.3	87.3
80°	48.4	57.8	63.8	65.1	64.5
82.5°	28.9	39.0	43.7	45.0	44.3
85°	14.8	22.8	26.9	27.5	26.9
87.5°	5.4	11.4	13.4	13.4	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)