

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: PrentaLux

Report Number: P600653

Luminaire Tested: PRLX-215-90-27K-LL1-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PentaLux
Catalog Number: PRLX-215-90-27K-LL1-UNV-STD-X-X-WHHR-FL-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 879.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

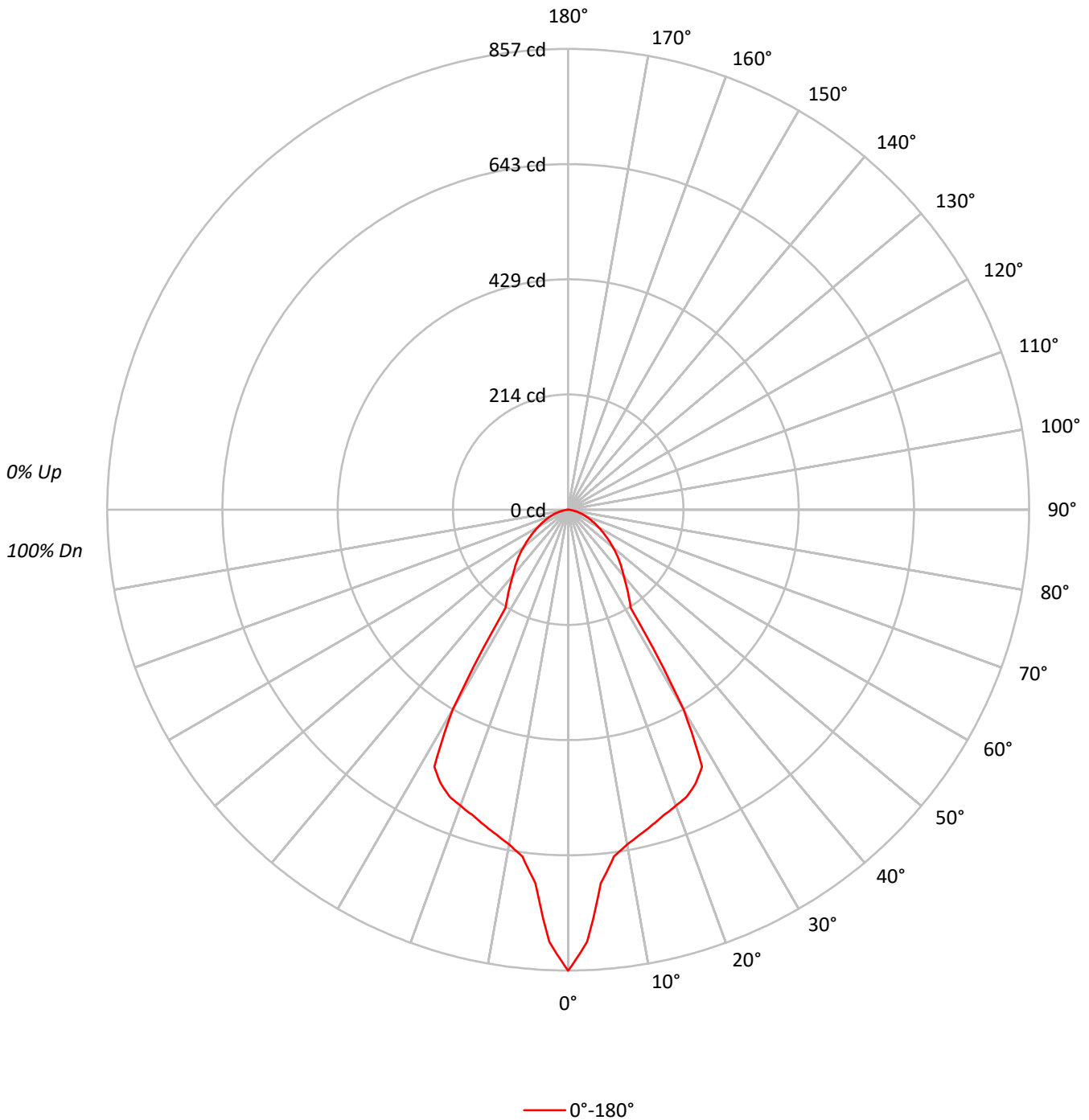
Input Watts (W): 9.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		95	93	92	90
2	104	98	93	89	102	96	92	87	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68		76	71	67		74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	56		66	60	56		64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52		61	56	52		60	55	51	50
8	71	60	53	48	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45		54	48	44		53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	42		51	45	41		50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11751
5°	9593
10°	8795
15°	8604
20°	8544
25°	8488
30°	6787
35°	3278
40°	2871
45°	2609
50°	2315
55°	2033
60°	1779
65°	1557
70°	1358
75°	1144
80°	797
85°	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	7.4
10°-20°	171.4	19.5
20°-30°	251.1	28.6
30°-40°	136.5	15.5
40°-50°	103.6	11.8
50°-60°	76.6	8.7
60°-70°	48.1	5.5
70°-80°	23.0	2.6
80°-90°	3.6	0.4
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°	487.8	55.5
0°-40°	624.3	71.0
0°-60°	804.5	91.5
0°-90°	879.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	857	
5°	697	65
15°	606	171
25°	561	251
35°	196	136
45°	135	104
55°	85	77
65°	48	48
75°	22	23
85°	2	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	857.4
2.5°	804.4
5°	697.3
7.5°	650.4
10°	632.0
12.5°	618.6
15°	606.4
17.5°	594.8
20°	585.8
22.5°	577.2
25°	561.3
27.5°	538.9
30°	428.9
32.5°	216.4
35°	195.9
37.5°	177.1
40°	160.5
42.5°	147.2
45°	134.6
47.5°	121.6
50°	108.6
52.5°	96.7
55°	85.1
57.5°	74.7
60°	64.9
62.5°	56.3
65°	48.0
67.5°	41.1
70°	33.9
72.5°	27.8
75°	21.6
77.5°	15.9
80°	10.1
82.5°	5.8
85°	1.8
87.5°	0.7
90°	0.0

(END OF REPORT)