

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: P600661

Luminaire Tested: PRLX-215-90-27K-LL4-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600661  
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-LL4-UNV-STD-X-X-WHHR-SR-X  
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

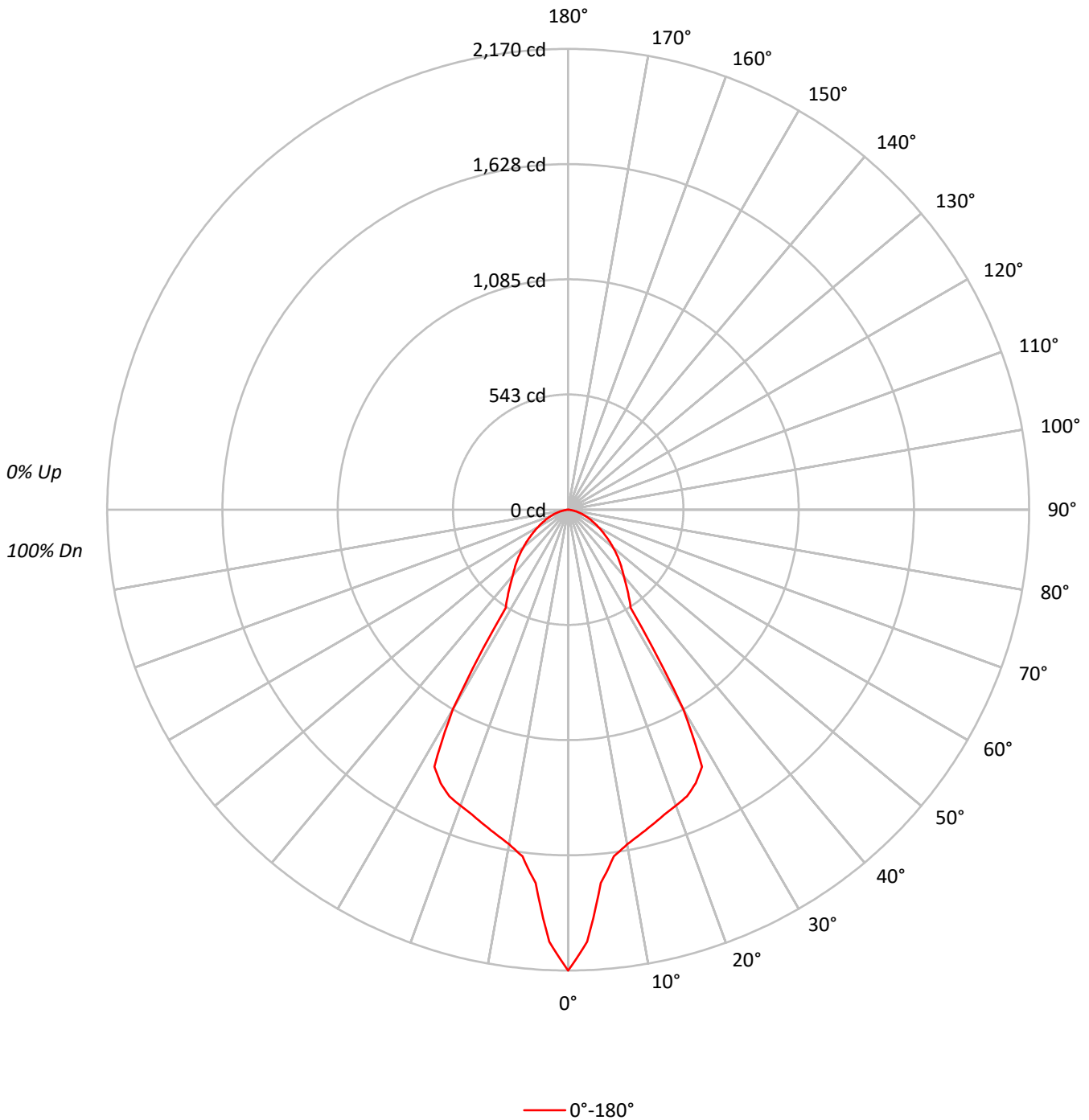
Lumens per Lamp: N/A  
Luminaire Lumens: 2225.6 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.5  
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°	29744
5°	24280
10°	22261
15°	21777
20°	21626
25°	21484
30°	17180
35°	8295
40°	7269
45°	6601
50°	5859
55°	5149
60°	4503
65°	3937
70°	3438
75°	2902
80°	2020
85°	723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6601 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	7.4
10°-20°	433.9	19.5
20°-30°	635.6	28.6
30°-40°	345.5	15.5
40°-50°	262.2	11.8
50°-60°	193.9	8.7
60°-70°	121.8	5.5
70°-80°	58.2	2.6
80°-90°	9.2	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°	1234.8	55.5
0°-40°	1580.3	71.0
0°-60°	2036.3	91.5
0°-90°	2225.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2170	
5°	1765	165
15°	1535	434
25°	1421	636
35°	496	345
45°	341	262
55°	216	194
65°	121	122
75°	55	58
85°	5	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2170.3
2.5°	2036.1
5°	1764.9
7.5°	1646.2
10°	1599.6
12.5°	1565.8
15°	1534.8
17.5°	1505.6
20°	1482.8
22.5°	1460.8
25°	1420.7
27.5°	1364.1
30°	1085.6
32.5°	547.8
35°	495.8
37.5°	448.3
40°	406.3
42.5°	372.5
45°	340.6
47.5°	307.7
50°	274.8
52.5°	244.7
55°	215.5
57.5°	189.0
60°	164.3
62.5°	142.4
65°	121.4
67.5°	104.1
70°	85.8
72.5°	70.3
75°	54.8
77.5°	40.2
80°	25.6
82.5°	14.6
85°	4.6
87.5°	1.8
90°	0.0

(END OF REPORT)