

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: P600680

Luminaire Tested: PRLX-215-90-30K-LL2-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600680  
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-215-90-30K-LL2-UNV-STD-X-X-WHHR-FL-X  
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1327.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

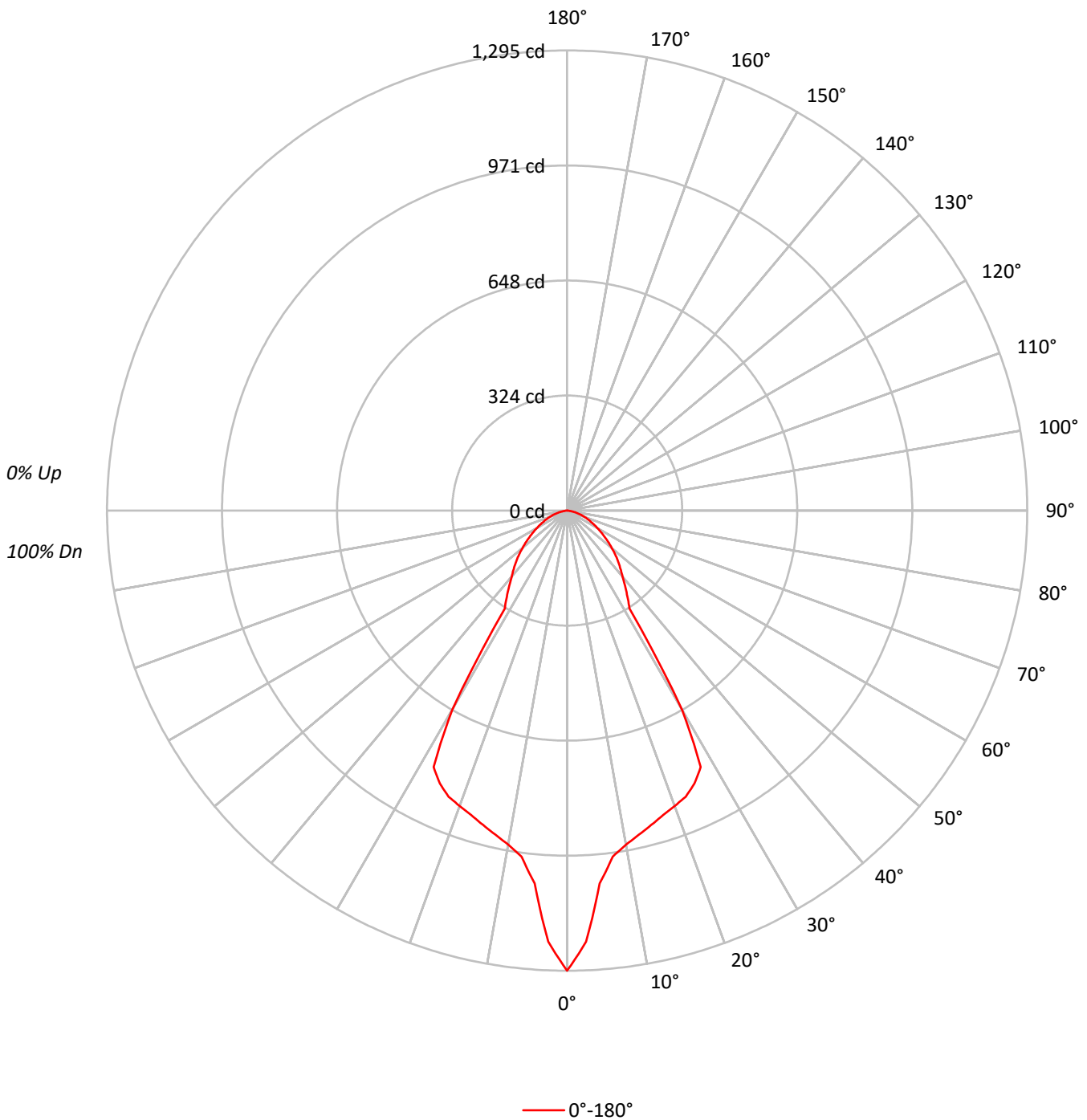
Input Watts (W): 12.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	17745
5°	14485
10°	13280
15°	12992
20°	12902
25°	12817
30°	10250
35°	4949
40°	4337
45°	3938
50°	3497
55°	3073
60°	2686
65°	2348
70°	2052
75°	1732
80°	1208
85°	425

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3938 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	7.4
10°-20°	258.9	19.5
20°-30°	379.2	28.6
30°-40°	206.1	15.5
40°-50°	156.4	11.8
50°-60°	115.7	8.7
60°-70°	72.7	5.5
70°-80°	34.7	2.6
80°-90°	5.5	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°	736.7	55.5
0°-40°	942.8	71.0
0°-60°	1214.9	91.5
0°-90°	1327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1327.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1295	
5°	1053	99
15°	916	259
25°	848	379
35°	296	206
45°	203	156
55°	129	116
65°	72	73
75°	33	35
85°	3	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1294.8
2.5°	1214.7
5°	1052.9
7.5°	982.1
10°	954.3
12.5°	934.2
15°	915.7
17.5°	898.2
20°	884.6
22.5°	871.5
25°	847.6
27.5°	813.8
30°	647.7
32.5°	326.8
35°	295.8
37.5°	267.5
40°	242.4
42.5°	222.2
45°	203.2
47.5°	183.6
50°	164.0
52.5°	146.0
55°	128.6
57.5°	112.8
60°	98.0
62.5°	85.0
65°	72.4
67.5°	62.1
70°	51.2
72.5°	41.9
75°	32.7
77.5°	24.0
80°	15.3
82.5°	8.7
85°	2.7
87.5°	1.1
90°	0.0

(END OF REPORT)