

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: P600580

Luminaire Tested: PRLX-235-90-30K-LL1-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/6/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PentaLux  
Catalog Number: PRLX-235-90-30K-LL1-UNV-STD-X-X-WHHR-BR-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: 1097.9 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

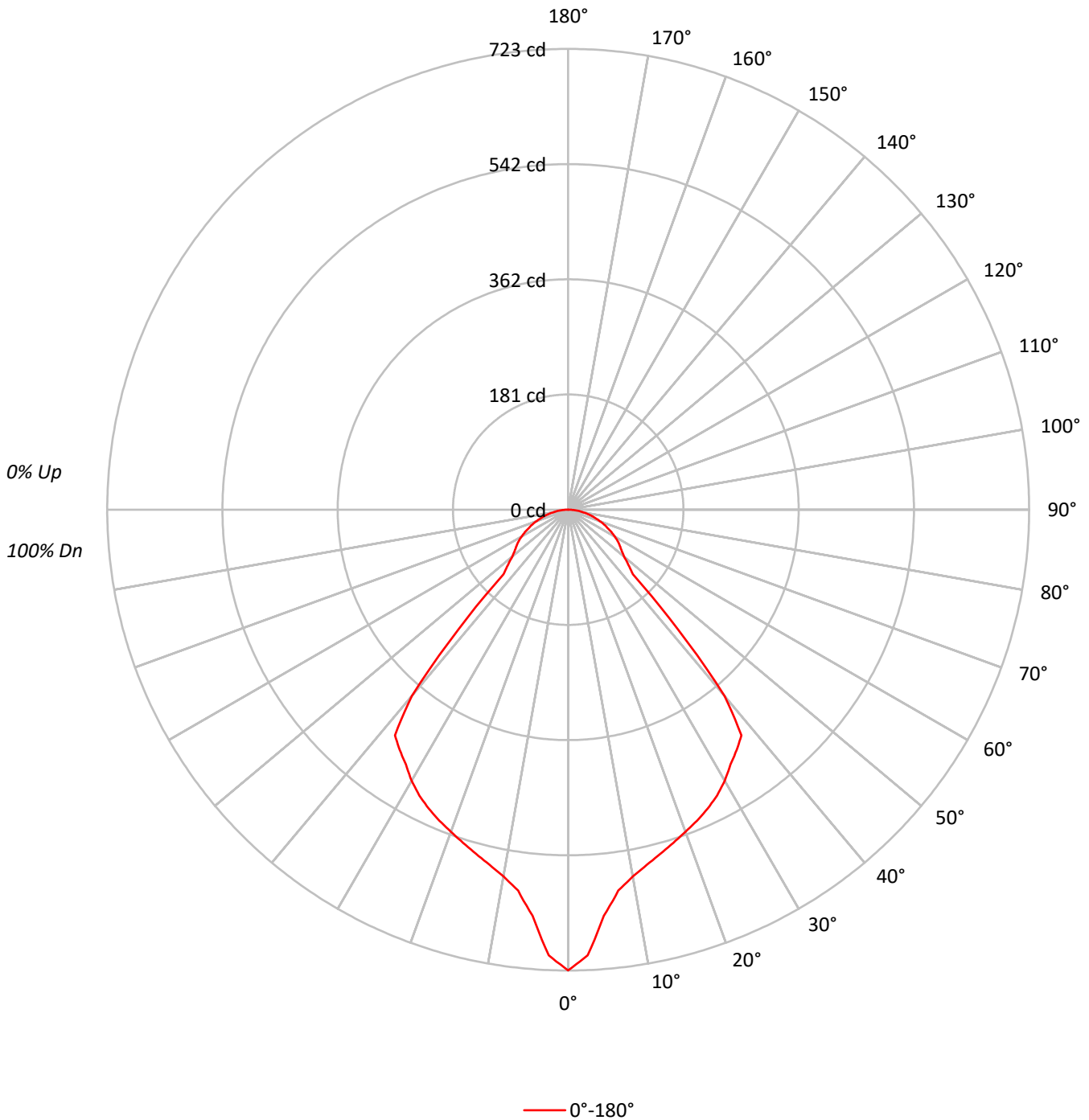
Input Watts (W): 9.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93	91	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47		57	51	46		56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43		53	47	42		52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	5572
5°	4948
10°	4572
15°	4459
20°	4411
25°	4401
30°	4371
35°	4333
40°	3841
45°	1563
50°	1376
55°	1331
60°	1303
65°	1250
70°	1199
75°	1150
80°	1105
85°	1079

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1563 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.5	5.4
10°-20°	157.9	14.4
20°-30°	238.4	21.7
30°-40°	284.3	25.9
40°-50°	147.0	13.4
50°-60°	88.6	8.1
60°-70°	68.0	6.2
70°-80°	40.8	3.7
80°-90°	13.4	1.2
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°	455.9	41.5
0°-40°	740.1	67.4
0°-60°	975.8	88.9
0°-90°	1097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	723	
5°	639	60
15°	559	158
25°	517	238
35°	460	284
45°	143	147
55°	99	89
65°	68	68
75°	39	41
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	722.8
2.5°	699.8
5°	639.4
7.5°	602.7
10°	584.0
12.5°	570.6
15°	558.7
17.5°	548.0
20°	537.7
22.5°	528.1
25°	517.4
27.5°	505.6
30°	491.0
32.5°	473.8
35°	460.4
37.5°	446.3
40°	381.7
42.5°	254.3
45°	143.4
47.5°	127.7
50°	114.7
52.5°	105.5
55°	99.0
57.5°	92.2
60°	84.5
62.5°	76.5
65°	68.5
67.5°	60.8
70°	53.2
72.5°	45.5
75°	38.6
77.5°	31.4
80°	24.9
82.5°	18.4
85°	12.2
87.5°	6.1
90°	0.0

(END OF REPORT)