

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: P600573

Luminaire Tested: PRLX-225-90-27K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600573  
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-225-90-27K-LL6-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**

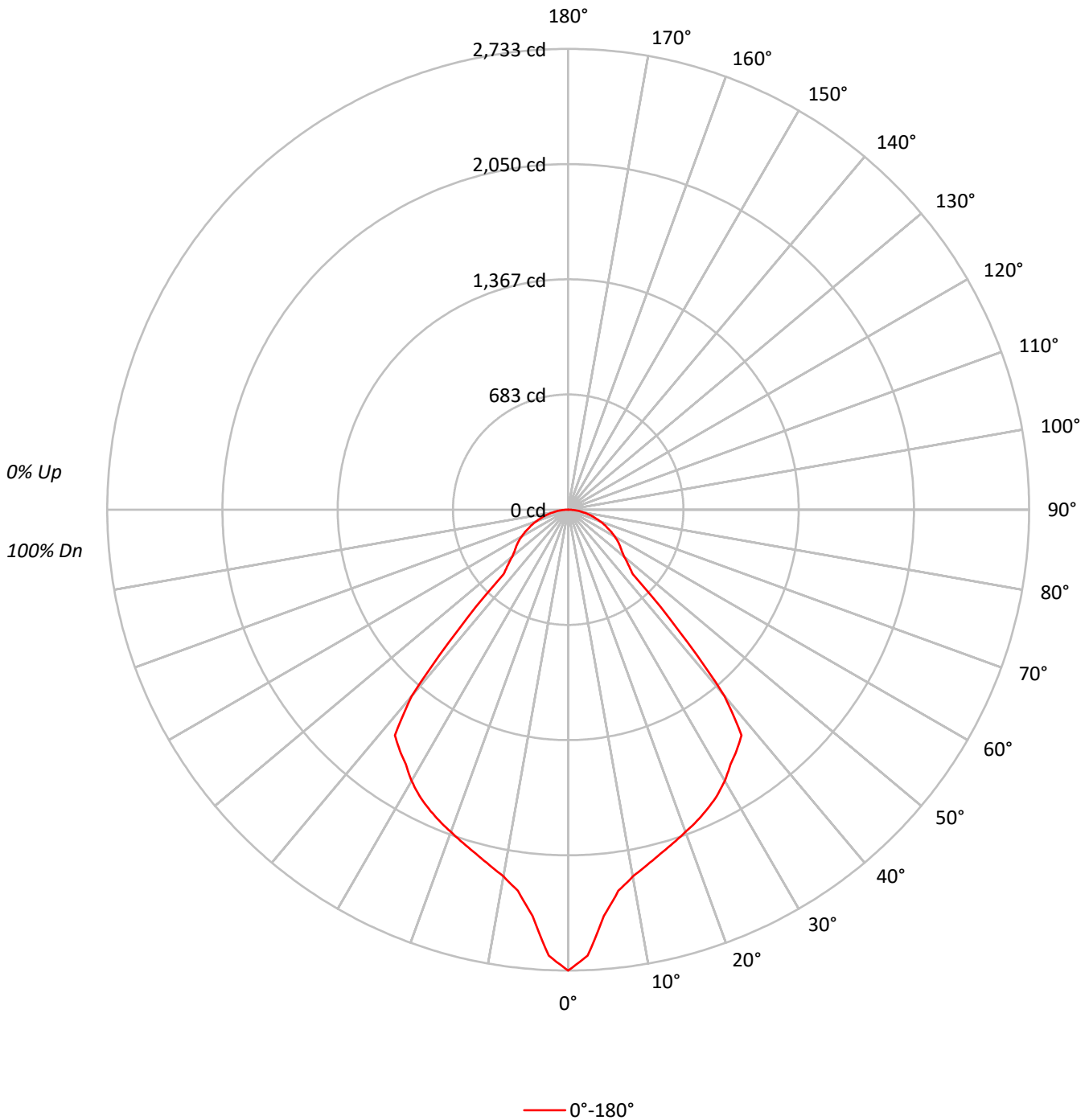
Lumens per Lamp: N/A  
Luminaire Lumens: 4151.9 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.3  
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	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°	21072
5°	18713
10°	17287
15°	16863
20°	16682
25°	16645
30°	16531
35°	16388
40°	14525
45°	5912
50°	5204
55°	5035
60°	4928
65°	4723
70°	4531
75°	4352
80°	4173
85°	4095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5912 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	5.4
10°-20°	597.3	14.4
20°-30°	901.5	21.7
30°-40°	1075.1	25.9
40°-50°	555.9	13.4
50°-60°	335.3	8.1
60°-70°	256.9	6.2
70°-80°	154.1	3.7
80°-90°	50.6	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°	1724.0	41.5
0°-40°	2799.1	67.4
0°-60°	3690.3	88.9
0°-90°	4151.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4151.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2733	
5°	2418	225
15°	2113	597
25°	1957	902
35°	1741	1075
45°	542	556
55°	375	335
65°	259	257
75°	146	154
85°	46	51
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2733.4
2.5°	2646.6
5°	2418.1
7.5°	2279.3
10°	2208.4
12.5°	2157.8
15°	2112.9
17.5°	2072.5
20°	2033.4
22.5°	1997.2
25°	1956.8
27.5°	1911.9
30°	1857.0
32.5°	1791.9
35°	1741.3
37.5°	1687.8
40°	1443.3
42.5°	961.7
45°	542.3
47.5°	483.0
50°	433.9
52.5°	399.2
55°	374.6
57.5°	348.5
60°	319.6
62.5°	289.2
65°	258.9
67.5°	230.0
70°	201.0
72.5°	172.1
75°	146.1
77.5°	118.6
80°	94.0
82.5°	69.4
85°	46.3
87.5°	23.1
90°	0.0

(END OF REPORT)