

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: P600715

Luminaire Tested: PRLX-215-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600715  
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-215-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X  
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

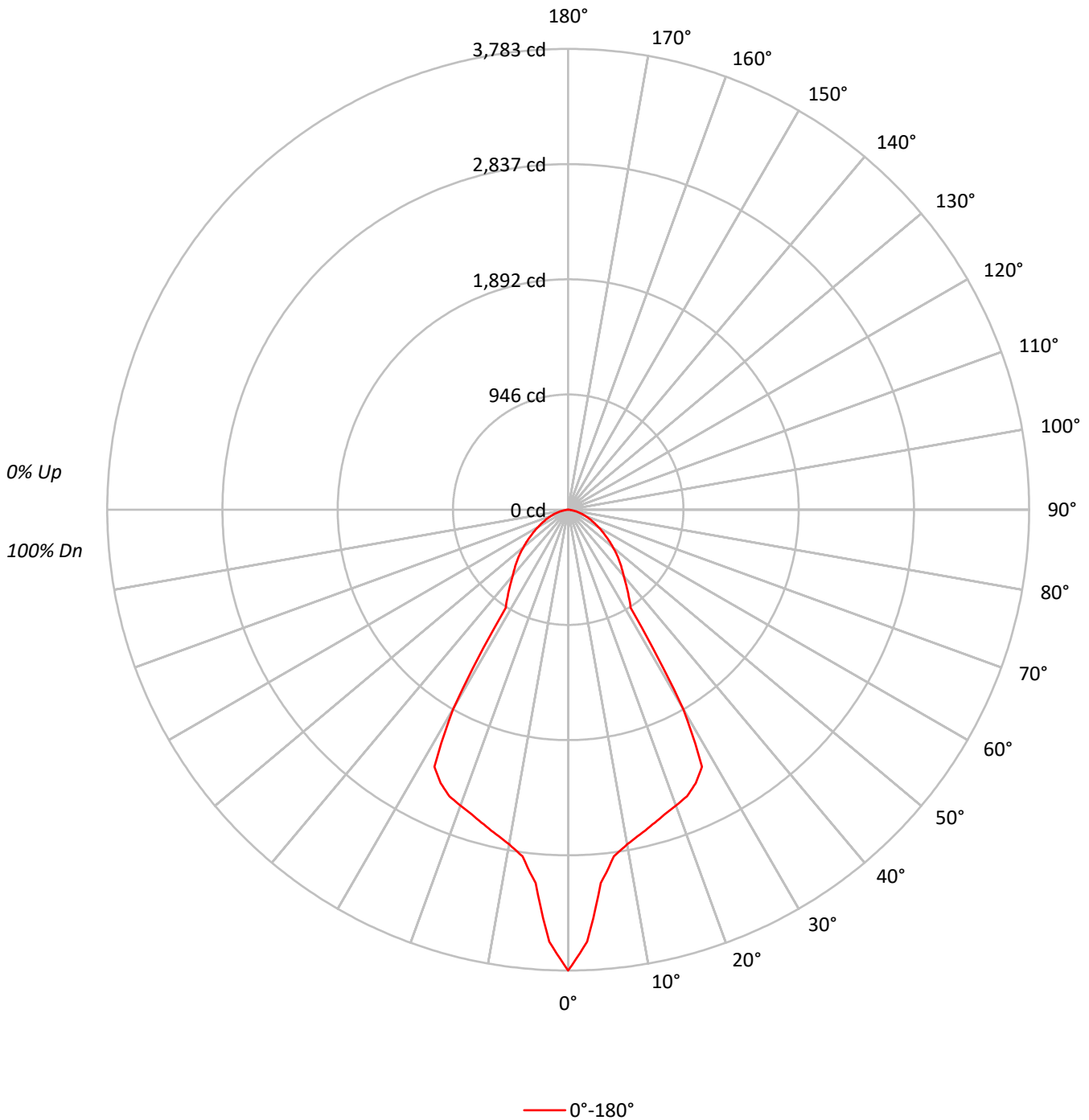
Lumens per Lamp: N/A  
Luminaire Lumens: 3879.5 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.3  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90			90	
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80			80	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65			65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59			59	
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54			54	
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50			50	
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46			46	
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43			43	
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40			40	

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

	0°
0°	51848
5°	42323
10°	38805
15°	37960
20°	37697
25°	37448
30°	29946
35°	14459
40°	12670
45°	11505
50°	10215
55°	8975
60°	7853
65°	6865
70°	5995
75°	5057
80°	3520
85°	1258

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.0	7.4
10°-20°	756.4	19.5
20°-30°	1108.0	28.6
30°-40°	602.2	15.5
40°-50°	457.0	11.8
50°-60°	338.0	8.7
60°-70°	212.4	5.5
70°-80°	101.4	2.6
80°-90°	16.0	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°	2152.4	55.5
0°-40°	2754.6	71.0
0°-60°	3549.6	91.5
0°-90°	3879.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3783	
5°	3076	288
15°	2675	756
25°	2476	1108
35°	864	602
45°	594	457
55°	376	338
65°	212	212
75°	96	101
85°	8	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3783.1
2.5°	3549.1
5°	3076.4
7.5°	2869.5
10°	2788.4
12.5°	2729.5
15°	2675.4
17.5°	2624.5
20°	2584.7
22.5°	2546.5
25°	2476.4
27.5°	2377.8
30°	1892.3
32.5°	954.9
35°	864.2
37.5°	781.4
40°	708.2
42.5°	649.3
45°	593.6
47.5°	536.3
50°	479.1
52.5°	426.5
55°	375.6
57.5°	329.4
60°	286.5
62.5°	248.3
65°	211.7
67.5°	181.4
70°	149.6
72.5°	122.5
75°	95.5
77.5°	70.0
80°	44.6
82.5°	25.5
85°	8.0
87.5°	3.2
90°	0.0

(END OF REPORT)