

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: P600649

Luminaire Tested: PRLX-235-90-40K-LL8-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600649  
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-235-90-40K-LL8-UNV-STD-X-X-WHHR-BR-X  
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7094.1 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

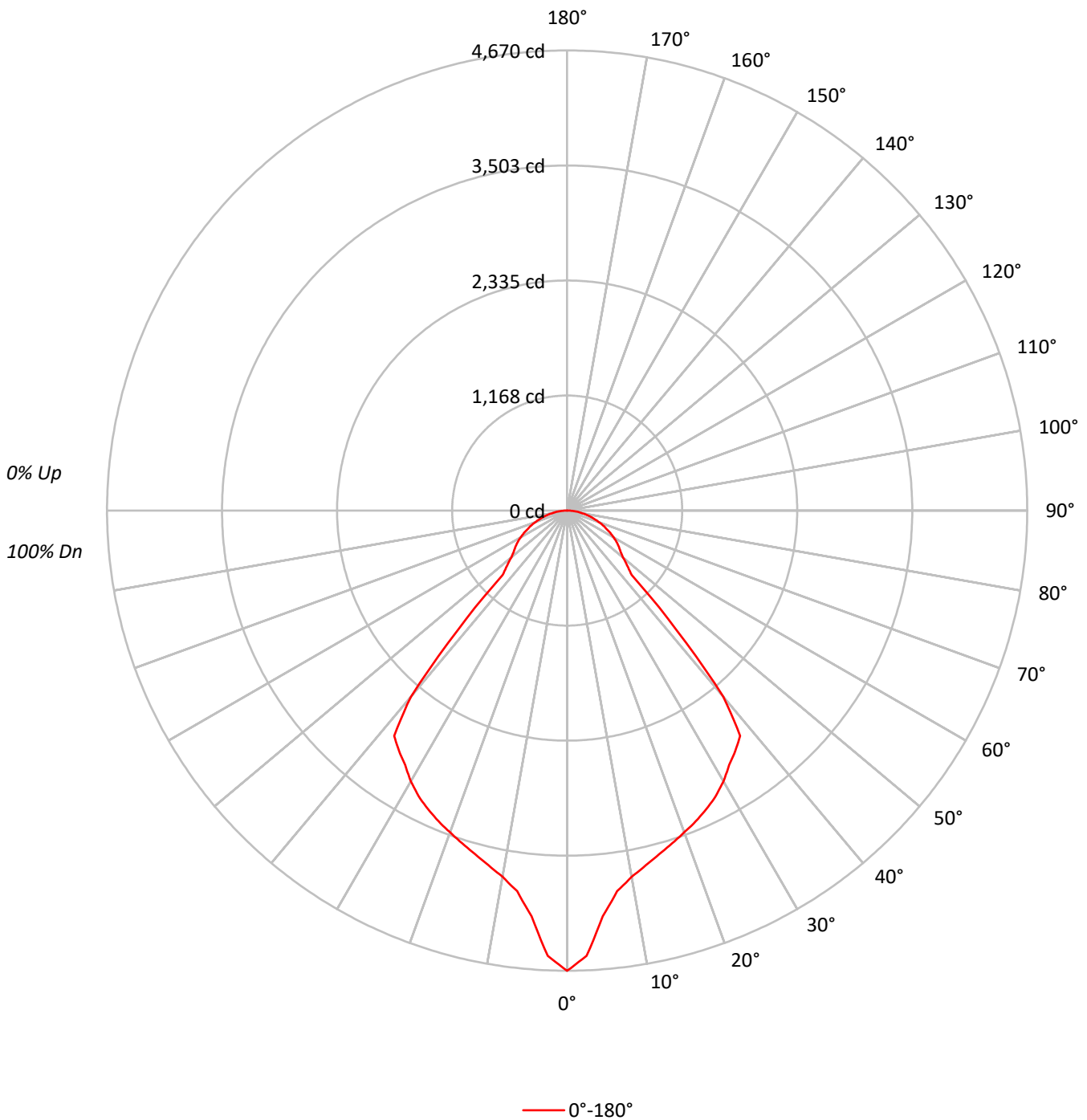
Input Watts (W): 72.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	36005
5°	31973
10°	29538
15°	28814
20°	28504
25°	28439
30°	28244
35°	28000
40°	24818
45°	10103
50°	8891
55°	8602
60°	8420
65°	8068
70°	7742
75°	7435
80°	7130
85°	6997

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10103 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.7	5.4
10°-20°	1020.6	14.4
20°-30°	1540.4	21.7
30°-40°	1836.9	25.9
40°-50°	949.9	13.4
50°-60°	572.9	8.1
60°-70°	439.0	6.2
70°-80°	263.3	3.7
80°-90°	86.4	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°	2945.7	41.5
0°-40°	4782.6	67.4
0°-60°	6305.3	88.9
0°-90°	7094.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4670	
5°	4132	385
15°	3610	1021
25°	3343	1540
35°	2975	1837
45°	927	950
55°	640	573
65°	442	439
75°	250	263
85°	79	86
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4670.4
2.5°	4522.1
5°	4131.7
7.5°	3894.4
10°	3773.4
12.5°	3686.9
15°	3610.3
17.5°	3541.1
20°	3474.4
22.5°	3412.6
25°	3343.4
27.5°	3266.8
30°	3172.9
32.5°	3061.7
35°	2975.2
37.5°	2883.8
40°	2466.1
42.5°	1643.3
45°	926.7
47.5°	825.3
50°	741.3
52.5°	682.0
55°	640.0
57.5°	595.5
60°	546.1
62.5°	494.2
65°	442.3
67.5°	392.9
70°	343.5
72.5°	294.1
75°	249.6
77.5°	202.6
80°	160.6
82.5°	118.6
85°	79.1
87.5°	39.5
90°	0.0

(END OF REPORT)