

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: P600698

Luminaire Tested: PRLX-215-90-30K-LL8-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600698
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-LL8-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: 5621.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

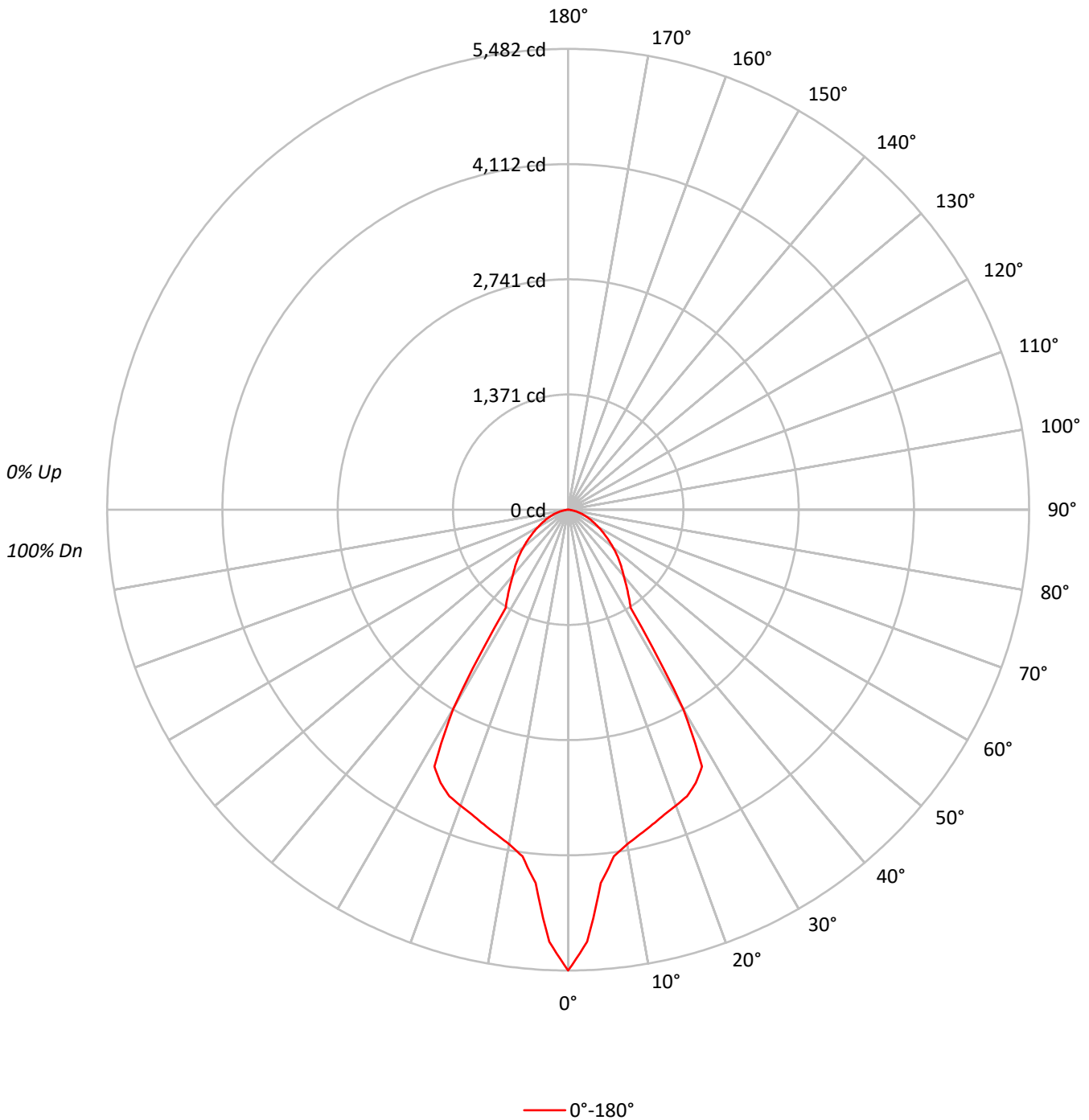
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	75127
5°	61326
10°	56227
15°	55003
20°	54622
25°	54262
30°	43393
35°	20950
40°	18359
45°	16672
50°	14799
55°	13003
60°	11378
65°	9946
70°	8687
75°	7329
80°	5099
85°	1808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.3	7.4
10°-20°	1096.0	19.5
20°-30°	1605.5	28.6
30°-40°	872.5	15.5
40°-50°	662.2	11.8
50°-60°	489.7	8.7
60°-70°	307.8	5.5
70°-80°	147.0	2.6
80°-90°	23.2	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°	3118.8	55.5
0°-40°	3991.4	71.0
0°-60°	5143.3	91.5
0°-90°	5621.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5621.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5482	
5°	4458	417
15°	3877	1096
25°	3588	1605
35°	1252	873
45°	860	662
55°	544	490
65°	307	308
75°	138	147
85°	12	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5481.7
2.5°	5142.7
5°	4457.7
7.5°	4158.0
10°	4040.3
12.5°	3955.0
15°	3876.6
17.5°	3802.8
20°	3745.2
22.5°	3689.8
25°	3588.3
27.5°	3445.4
30°	2742.0
32.5°	1383.7
35°	1252.2
37.5°	1132.3
40°	1026.2
42.5°	940.9
45°	860.2
47.5°	777.2
50°	694.1
52.5°	618.0
55°	544.2
57.5°	477.4
60°	415.1
62.5°	359.8
65°	306.7
67.5°	262.9
70°	216.8
72.5°	177.6
75°	138.4
77.5°	101.5
80°	64.6
82.5°	36.9
85°	11.5
87.5°	4.6
90°	0.0

(END OF REPORT)