

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: P600691

Luminaire Tested: PRLX-215-90-30K-LL6-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600691
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-LL6-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: 3755.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

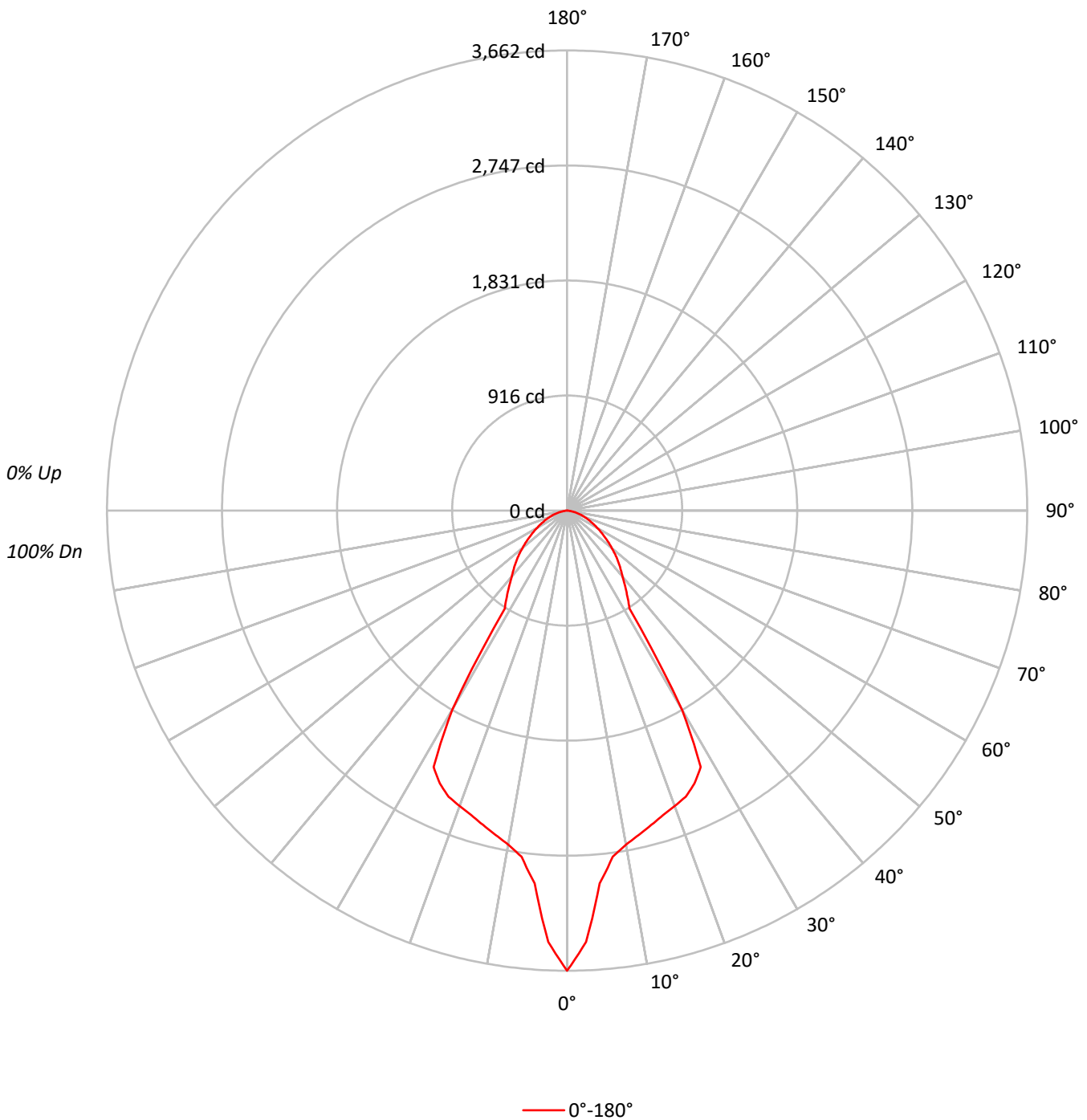
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	50185
5°	40967
10°	37561
15°	36743
20°	36488
25°	36247
30°	28987
35°	13995
40°	12264
45°	11137
50°	9887
55°	8688
60°	7601
65°	6645
70°	5802
75°	4893
80°	3402
85°	1211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	7.4
10°-20°	732.2	19.5
20°-30°	1072.4	28.6
30°-40°	582.9	15.5
40°-50°	442.4	11.8
50°-60°	327.2	8.7
60°-70°	205.6	5.5
70°-80°	98.2	2.6
80°-90°	15.5	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°	2083.4	55.5
0°-40°	2666.3	71.0
0°-60°	3435.8	91.5
0°-90°	3755.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3662	
5°	2978	279
15°	2590	732
25°	2397	1072
35°	836	583
45°	575	442
55°	364	327
65°	205	206
75°	92	98
85°	8	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3661.8
2.5°	3435.3
5°	2977.8
7.5°	2777.5
10°	2699.0
12.5°	2642.0
15°	2589.6
17.5°	2540.3
20°	2501.8
22.5°	2464.8
25°	2397.0
27.5°	2301.5
30°	1831.7
32.5°	924.3
35°	836.5
37.5°	756.4
40°	685.5
42.5°	628.5
45°	574.6
47.5°	519.1
50°	463.7
52.5°	412.9
55°	363.6
57.5°	318.9
60°	277.3
62.5°	240.3
65°	204.9
67.5°	175.6
70°	144.8
72.5°	118.6
75°	92.4
77.5°	67.8
80°	43.1
82.5°	24.6
85°	7.7
87.5°	3.1
90°	0.0

(END OF REPORT)