

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: P600667

Luminaire Tested: PRLX-215-90-27K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600667
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-215-90-27K-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: 3542.1 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

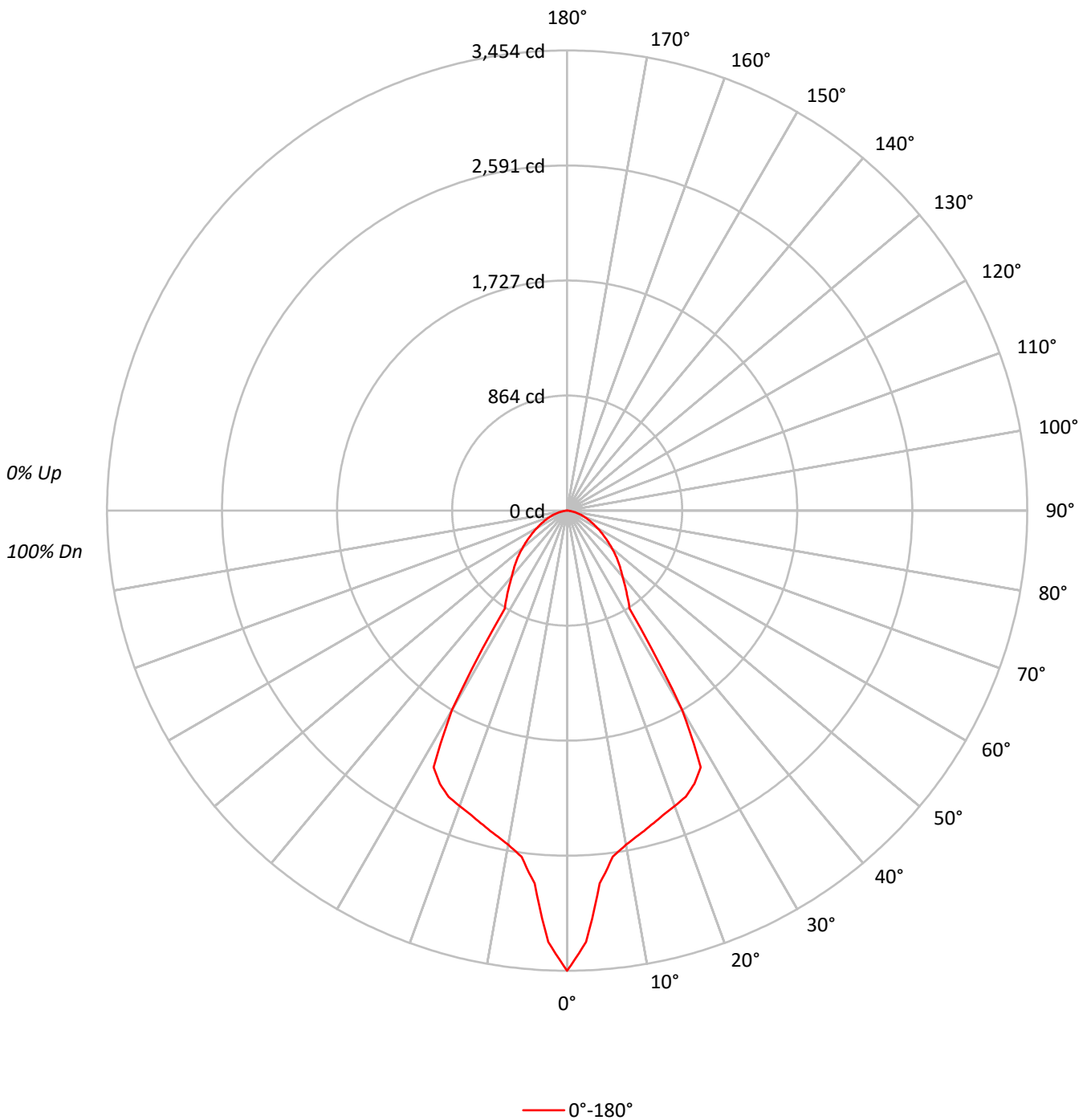
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	47339
5°	38643
10°	35430
15°	34658
20°	34418
25°	34192
30°	27343
35°	13201
40°	11568
45°	10505
50°	9326
55°	8193
60°	7170
65°	6269
70°	5474
75°	4617
80°	3212
85°	1148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10505 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	7.4
10°-20°	690.6	19.5
20°-30°	1011.6	28.6
30°-40°	549.8	15.5
40°-50°	417.3	11.8
50°-60°	308.6	8.7
60°-70°	194.0	5.5
70°-80°	92.6	2.6
80°-90°	14.6	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°	1965.2	55.5
0°-40°	2515.0	71.0
0°-60°	3240.9	91.5
0°-90°	3542.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3454	
5°	2809	263
15°	2443	691
25°	2261	1012
35°	789	550
45°	542	417
55°	343	309
65°	193	194
75°	87	93
85°	7	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3454.1
2.5°	3240.5
5°	2808.9
7.5°	2620.0
10°	2545.9
12.5°	2492.1
15°	2442.7
17.5°	2396.2
20°	2359.9
22.5°	2325.0
25°	2261.1
27.5°	2171.0
30°	1727.8
32.5°	871.9
35°	789.0
37.5°	713.5
40°	646.6
42.5°	592.9
45°	542.0
47.5°	489.7
50°	437.4
52.5°	389.4
55°	342.9
57.5°	300.8
60°	261.6
62.5°	226.7
65°	193.3
67.5°	165.7
70°	136.6
72.5°	111.9
75°	87.2
77.5°	63.9
80°	40.7
82.5°	23.3
85°	7.3
87.5°	2.9
90°	0.0

(END OF REPORT)