

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: P600655

Luminaire Tested: PRLX-215-90-27K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600655
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-LL2-UNV-STD-X-X-WHHR-BR-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: 1252.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

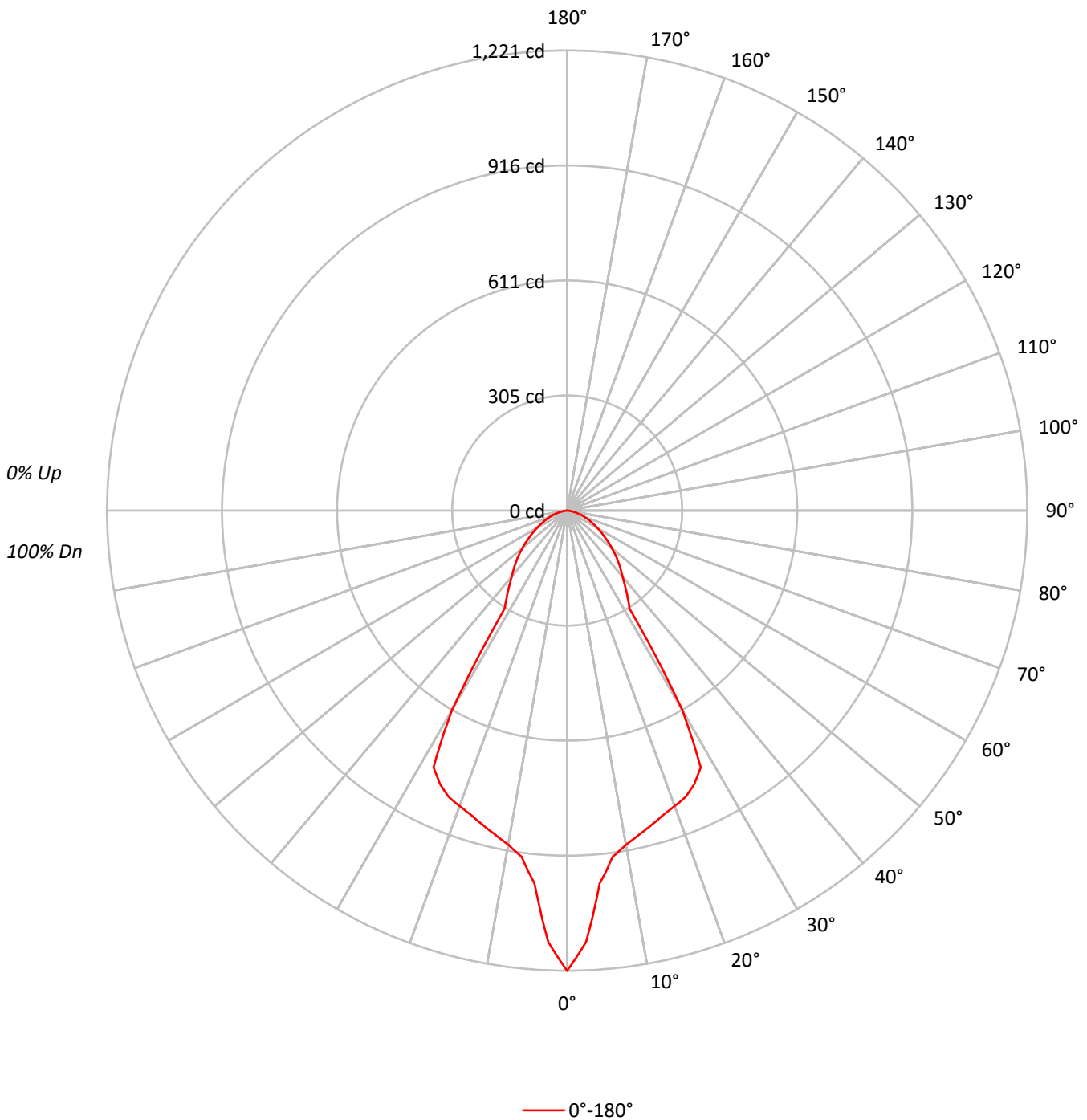
Input Watts (W): 12.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	16738
5°	13664
10°	12528
15°	12255
20°	12169
25°	12090
30°	9668
35°	4668
40°	4090
45°	3716
50°	3298
55°	2898
60°	2535
65°	2215
70°	1935
75°	1631
80°	1137
85°	409

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	7.4
10°-20°	244.2	19.5
20°-30°	357.7	28.6
30°-40°	194.4	15.5
40°-50°	147.6	11.8
50°-60°	109.1	8.7
60°-70°	68.6	5.5
70°-80°	32.8	2.6
80°-90°	5.2	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°	694.9	55.5
0°-40°	889.3	71.0
0°-60°	1146.0	91.5
0°-90°	1252.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1221	
5°	993	93
15°	864	244
25°	800	358
35°	279	194
45°	192	148
55°	121	109
65°	68	69
75°	31	33
85°	3	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1221.3
2.5°	1145.8
5°	993.2
7.5°	926.4
10°	900.2
12.5°	881.2
15°	863.7
17.5°	847.3
20°	834.4
22.5°	822.1
25°	799.5
27.5°	767.6
30°	610.9
32.5°	308.3
35°	279.0
37.5°	252.3
40°	228.6
42.5°	209.6
45°	191.7
47.5°	173.2
50°	154.7
52.5°	137.7
55°	121.3
57.5°	106.4
60°	92.5
62.5°	80.2
65°	68.3
67.5°	58.6
70°	48.3
72.5°	39.6
75°	30.8
77.5°	22.6
80°	14.4
82.5°	8.2
85°	2.6
87.5°	1.0
90°	0.0

(END OF REPORT)