

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: P600727

Luminaire Tested: PRLX-215-90-40K-LL2-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600727
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-215-90-40K-LL2-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: 1422.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

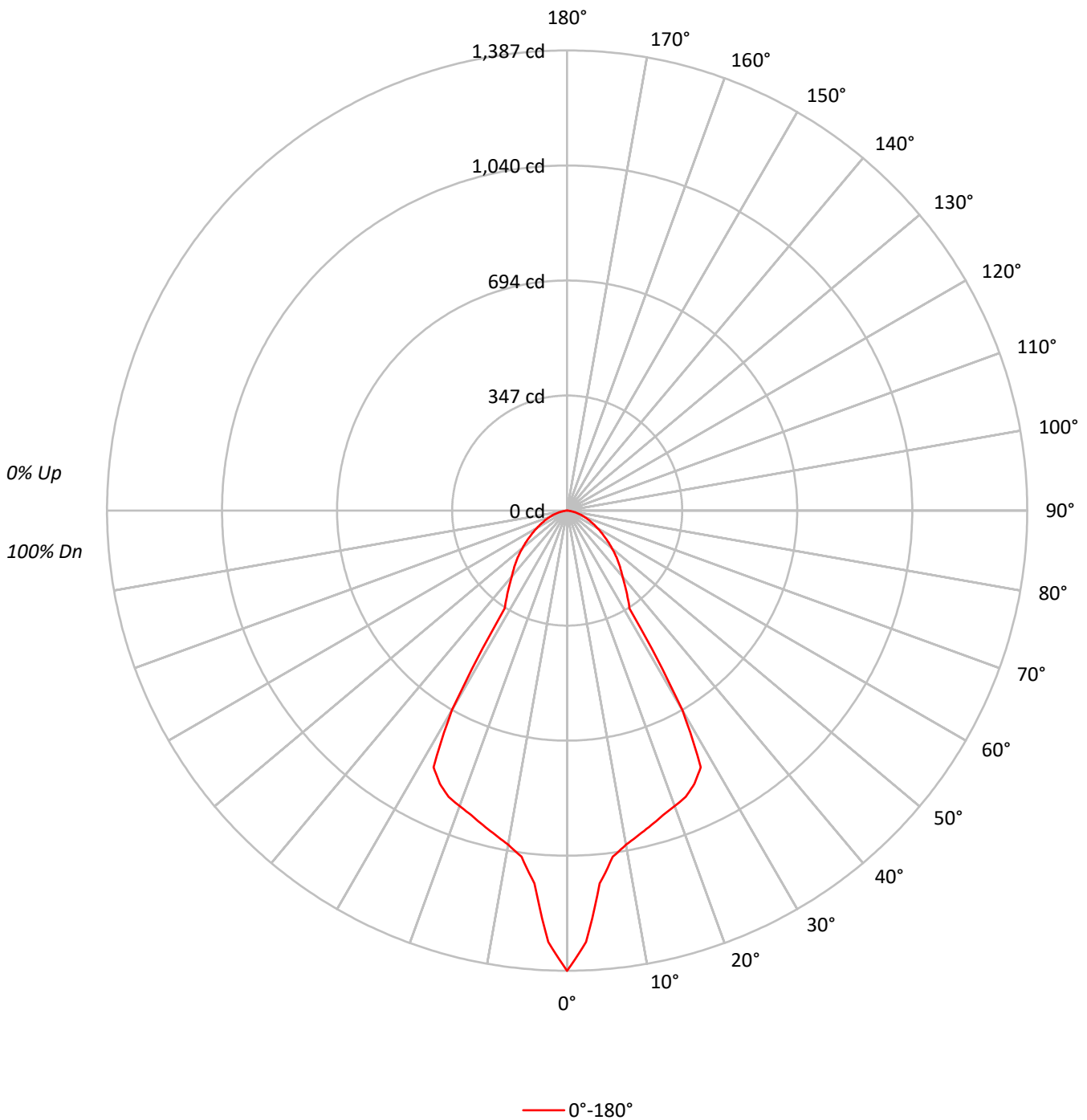
Input Watts (W): 12.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90				90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19014
5°	15521
10°	14231
15°	13922
20°	13825
25°	13734
30°	10983
35°	5302
40°	4646
45°	4219
50°	3746
55°	3290
60°	2881
65°	2516
70°	2200
75°	1853
80°	1286
85°	456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4219 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	7.4
10°-20°	277.4	19.5
20°-30°	406.3	28.6
30°-40°	220.8	15.5
40°-50°	167.6	11.8
50°-60°	123.9	8.7
60°-70°	77.9	5.5
70°-80°	37.2	2.6
80°-90°	5.9	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°	789.4	55.5
0°-40°	1010.2	71.0
0°-60°	1301.7	91.5
0°-90°	1422.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1387	
5°	1128	106
15°	981	277
25°	908	406
35°	317	221
45°	218	168
55°	138	124
65°	78	78
75°	35	37
85°	3	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1387.4
2.5°	1301.6
5°	1128.2
7.5°	1052.4
10°	1022.6
12.5°	1001.0
15°	981.2
17.5°	962.5
20°	947.9
22.5°	933.9
25°	908.2
27.5°	872.0
30°	694.0
32.5°	350.2
35°	316.9
37.5°	286.6
40°	259.7
42.5°	238.1
45°	217.7
47.5°	196.7
50°	175.7
52.5°	156.4
55°	137.7
57.5°	120.8
60°	105.1
62.5°	91.1
65°	77.6
67.5°	66.5
70°	54.9
72.5°	44.9
75°	35.0
77.5°	25.7
80°	16.3
82.5°	9.3
85°	2.9
87.5°	1.2
90°	0.0

(END OF REPORT)