

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: P600606

Luminaire Tested: PRLX-235-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PentaLux
Catalog Number: PRLX-235-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1128.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

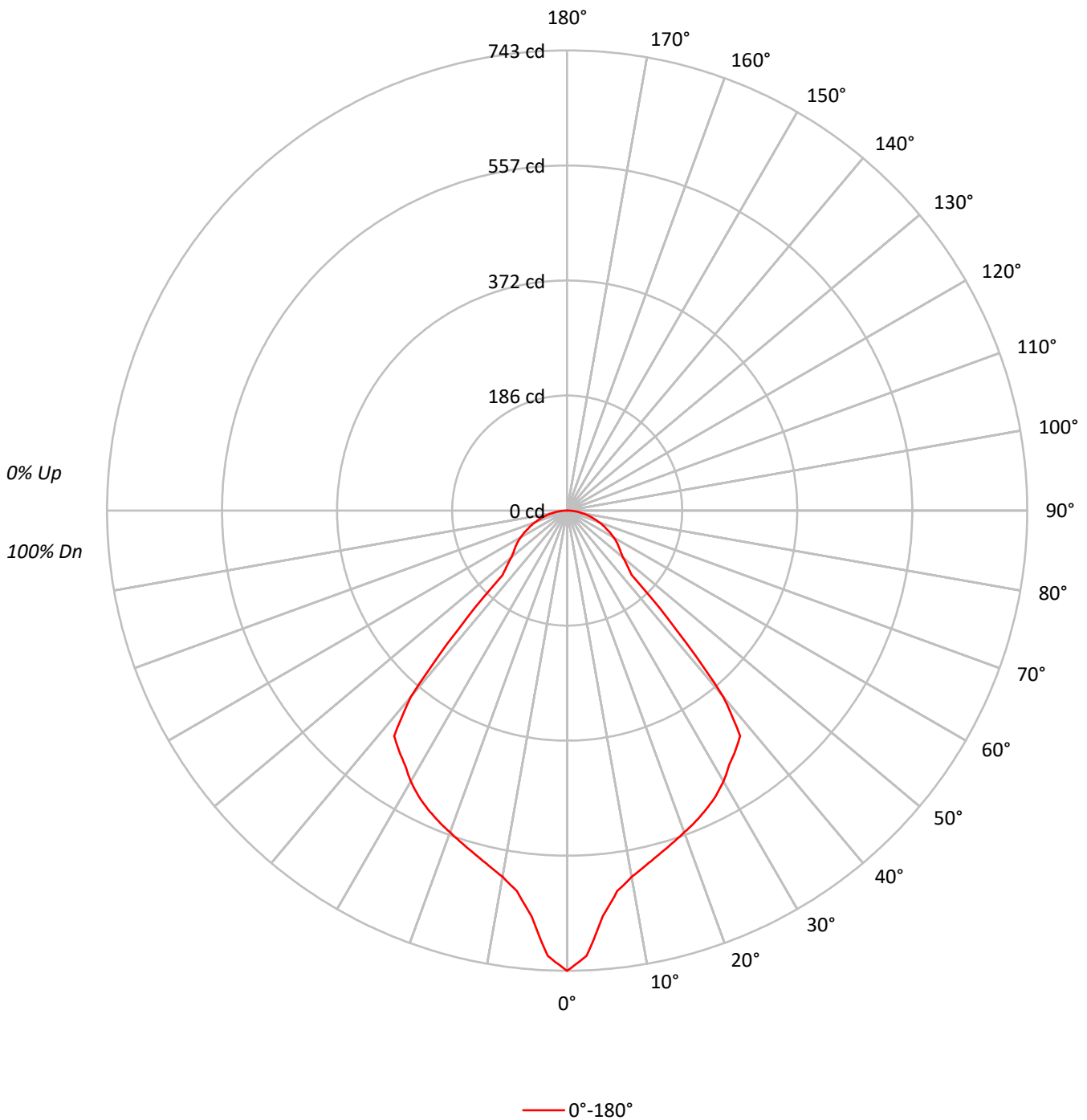
Input Watts (W): 9.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5729
5°	5088
10°	4700
15°	4585
20°	4536
25°	4525
30°	4494
35°	4455
40°	3949
45°	1608
50°	1415
55°	1368
60°	1340
65°	1284
70°	1233
75°	1182
80°	1137
85°	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1608 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	5.4
10°-20°	162.4	14.4
20°-30°	245.1	21.7
30°-40°	292.3	25.9
40°-50°	151.2	13.4
50°-60°	91.2	8.1
60°-70°	69.9	6.2
70°-80°	41.9	3.7
80°-90°	13.8	1.2
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°	468.7	41.5
0°-40°	761.0	67.4
0°-60°	1003.3	88.9
0°-90°	1128.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	743	
5°	658	61
15°	574	162
25°	532	245
35°	473	292
45°	148	151
55°	102	91
65°	70	70
75°	40	42
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	743.2
2.5°	719.6
5°	657.5
7.5°	619.7
10°	600.4
12.5°	586.7
15°	574.5
17.5°	563.5
20°	552.9
22.5°	543.0
25°	532.0
27.5°	519.8
30°	504.9
32.5°	487.2
35°	473.4
37.5°	458.9
40°	392.4
42.5°	261.5
45°	147.5
47.5°	131.3
50°	118.0
52.5°	108.5
55°	101.8
57.5°	94.8
60°	86.9
62.5°	78.6
65°	70.4
67.5°	62.5
70°	54.7
72.5°	46.8
75°	39.7
77.5°	32.2
80°	25.6
82.5°	18.9
85°	12.6
87.5°	6.3
90°	0.0

(END OF REPORT)