

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: P600569

Luminaire Tested: PRLX-205-90-27K-LL5-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600569
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-205-90-27K-LL5-UNV-STD-X-X-WHHR-FL-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: 3632.5 lumens
Efficiency: N/A
Efficacy: 108.1 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

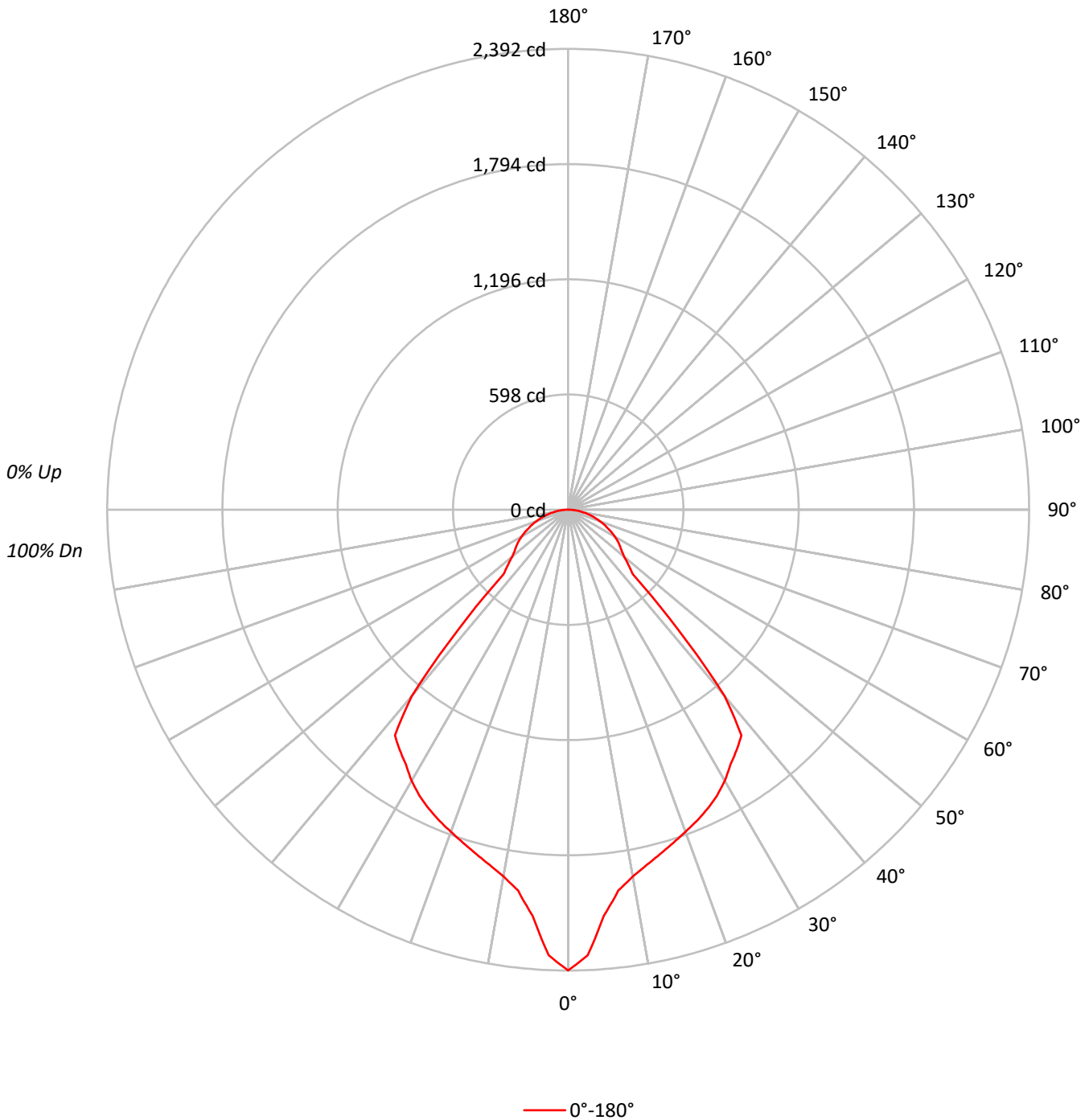
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18436
5°	16372
10°	15125
15°	14754
20°	14595
25°	14562
30°	14463
35°	14337
40°	12708
45°	5173
50°	4553
55°	4404
60°	4311
65°	4132
70°	3965
75°	3807
80°	3649
85°	3582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	5.4
10°-20°	522.6	14.4
20°-30°	788.7	21.7
30°-40°	940.6	25.9
40°-50°	486.4	13.4
50°-60°	293.3	8.1
60°-70°	224.8	6.2
70°-80°	134.9	3.7
80°-90°	44.2	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°	1508.3	41.5
0°-40°	2448.9	67.4
0°-60°	3228.6	88.9
0°-90°	3632.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2392	
5°	2116	197
15°	1849	523
25°	1712	789
35°	1523	941
45°	474	486
55°	328	293
65°	226	225
75°	128	135
85°	40	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2391.5
2.5°	2315.5
5°	2115.6
7.5°	1994.1
10°	1932.1
12.5°	1887.9
15°	1848.6
17.5°	1813.2
20°	1779.0
22.5°	1747.4
25°	1712.0
27.5°	1672.7
30°	1624.7
32.5°	1567.7
35°	1523.4
37.5°	1476.6
40°	1262.8
42.5°	841.4
45°	474.5
47.5°	422.6
50°	379.6
52.5°	349.2
55°	327.7
57.5°	304.9
60°	279.6
62.5°	253.1
65°	226.5
67.5°	201.2
70°	175.9
72.5°	150.6
75°	127.8
77.5°	103.8
80°	82.2
82.5°	60.7
85°	40.5
87.5°	20.2
90°	0.0

(END OF REPORT)