

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: P600577

Luminaire Tested: PRLX-235-90-27K-LL8-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600577
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-235-90-27K-LL8-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: 6245.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

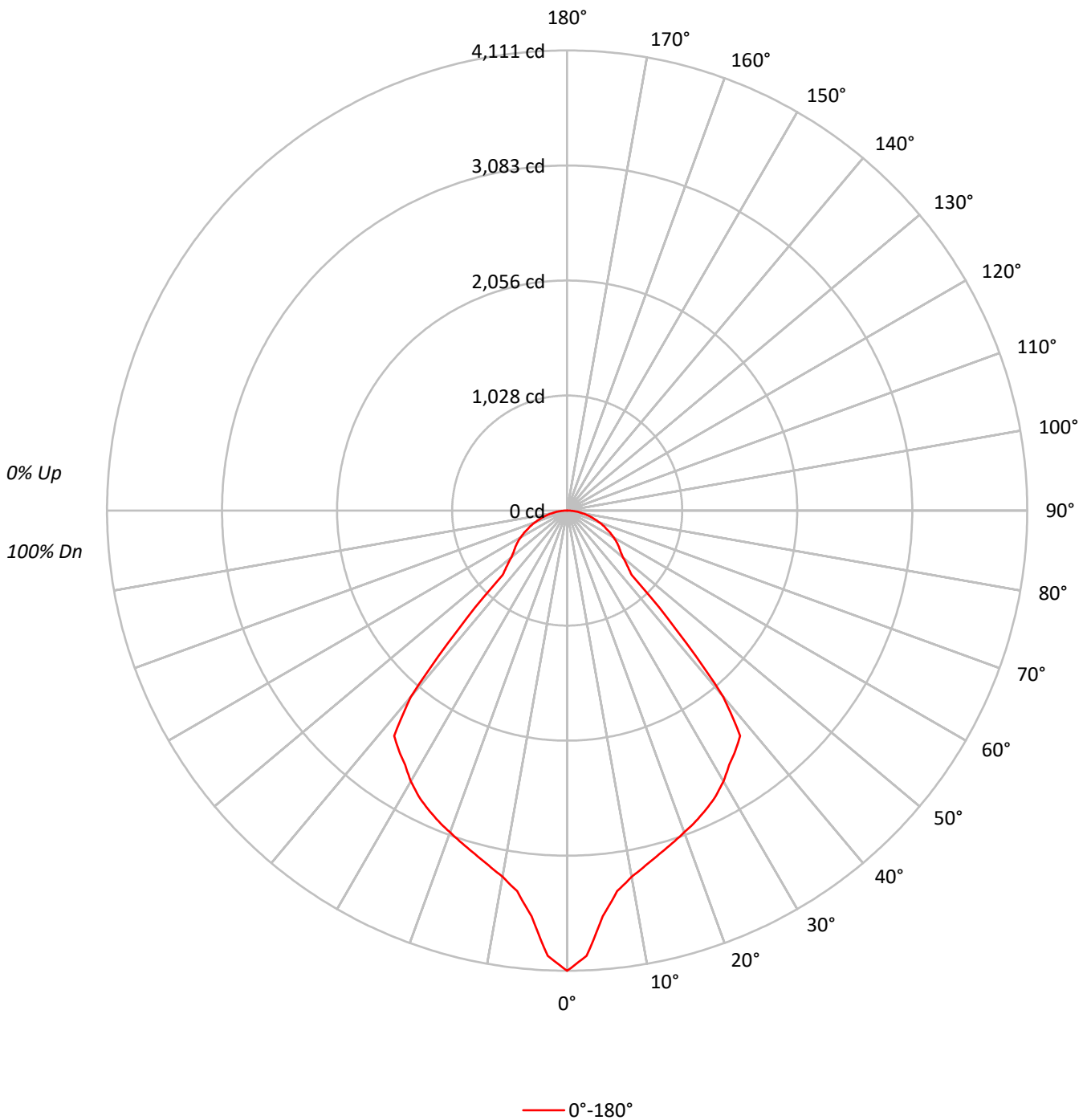
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	31695
5°	28146
10°	26002
15°	25365
20°	25092
25°	25035
30°	24863
35°	24649
40°	21848
45°	8893
50°	7827
55°	7572
60°	7412
65°	7103
70°	6816
75°	6544
80°	6277
85°	6156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8893 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	5.4
10°-20°	898.4	14.4
20°-30°	1356.0	21.7
30°-40°	1617.0	25.9
40°-50°	836.2	13.4
50°-60°	504.3	8.1
60°-70°	386.5	6.2
70°-80°	231.8	3.7
80°-90°	76.1	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°	2593.1	41.5
0°-40°	4210.1	67.4
0°-60°	5550.6	88.9
0°-90°	6245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6245.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4111	
5°	3637	339
15°	3178	898
25°	2943	1356
35°	2619	1617
45°	816	836
55°	563	504
65°	389	386
75°	220	232
85°	70	76
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4111.4
2.5°	3980.8
5°	3637.1
7.5°	3428.3
10°	3321.7
12.5°	3245.6
15°	3178.2
17.5°	3117.2
20°	3058.5
22.5°	3004.1
25°	2943.2
27.5°	2875.8
30°	2793.1
32.5°	2695.2
35°	2619.1
37.5°	2538.6
40°	2171.0
42.5°	1446.6
45°	815.7
47.5°	726.6
50°	652.6
52.5°	600.4
55°	563.4
57.5°	524.3
60°	480.7
62.5°	435.1
65°	389.4
67.5°	345.9
70°	302.4
72.5°	258.9
75°	219.7
77.5°	178.4
80°	141.4
82.5°	104.4
85°	69.6
87.5°	34.8
90°	0.0

(END OF REPORT)