

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: P600578

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600578
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-FL-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

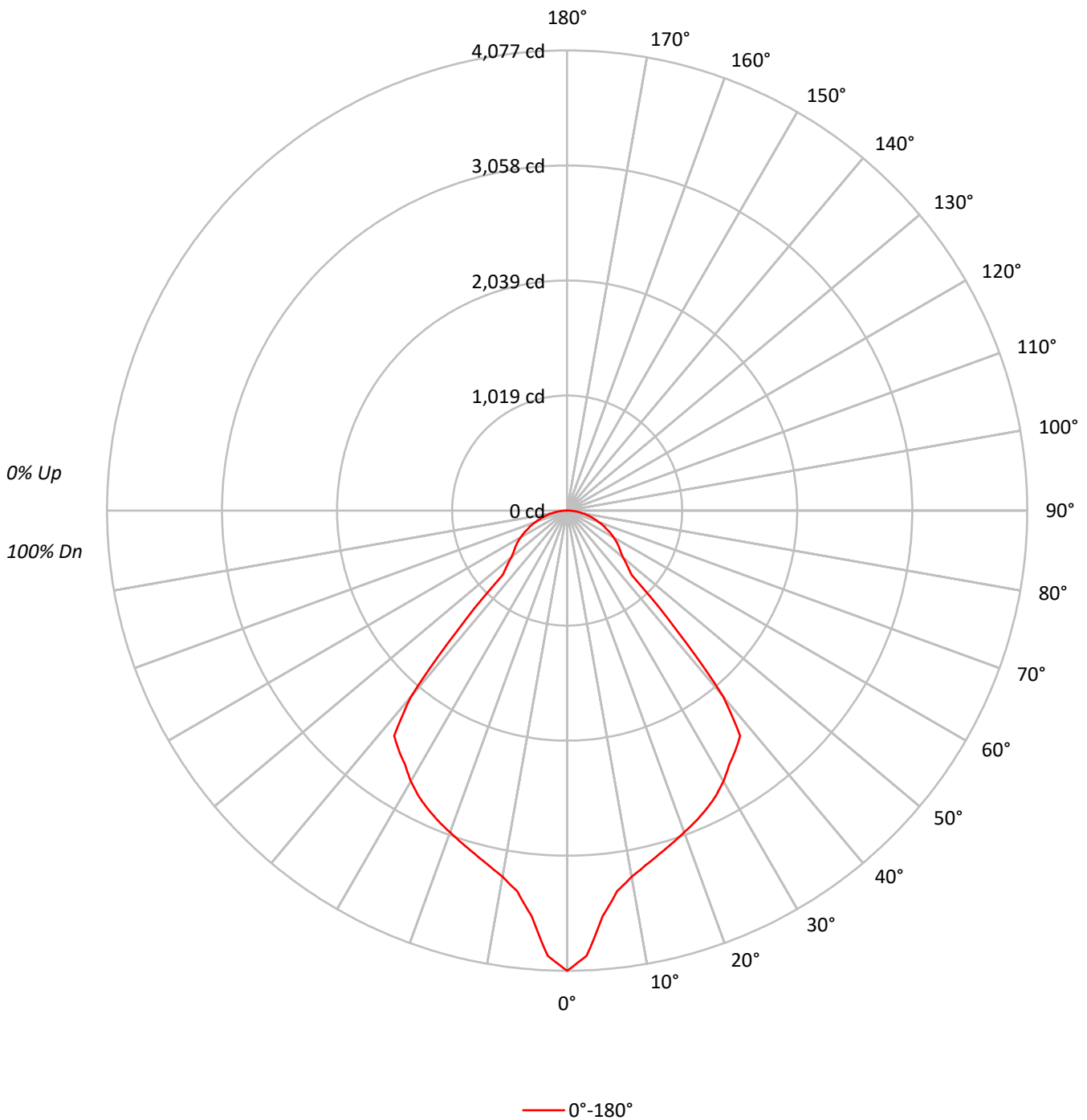
Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	31432
5°	27912
10°	25786
15°	25154
20°	24883
25°	24827
30°	24657
35°	24443
40°	21666
45°	8820
50°	7762
55°	7509
60°	7350
65°	7043
70°	6760
75°	6490
80°	6224
85°	6103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8820 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	5.4
10°-20°	891.0	14.4
20°-30°	1344.7	21.7
30°-40°	1603.6	25.9
40°-50°	829.3	13.4
50°-60°	500.1	8.1
60°-70°	383.2	6.2
70°-80°	229.9	3.7
80°-90°	75.4	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°	2571.5	41.5
0°-40°	4175.1	67.4
0°-60°	5504.5	88.9
0°-90°	6193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6193.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4077	
5°	3607	336
15°	3152	891
25°	2919	1345
35°	2597	1604
45°	809	829
55°	559	500
65°	386	383
75°	218	230
85°	69	75
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4077.2
2.5°	3947.7
5°	3606.9
7.5°	3399.8
10°	3294.1
12.5°	3218.6
15°	3151.7
17.5°	3091.3
20°	3033.1
22.5°	2979.1
25°	2918.7
27.5°	2851.9
30°	2769.9
32.5°	2672.8
35°	2597.3
37.5°	2517.5
40°	2152.9
42.5°	1434.6
45°	809.0
47.5°	720.5
50°	647.2
52.5°	595.4
55°	558.7
57.5°	519.9
60°	476.7
62.5°	431.4
65°	386.1
67.5°	343.0
70°	299.9
72.5°	256.7
75°	217.9
77.5°	176.9
80°	140.2
82.5°	103.5
85°	69.0
87.5°	34.5
90°	0.0

(END OF REPORT)