

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: P600597

Luminaire Tested: PRLX-235-90-30K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600597
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-235-90-30K-LL6-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

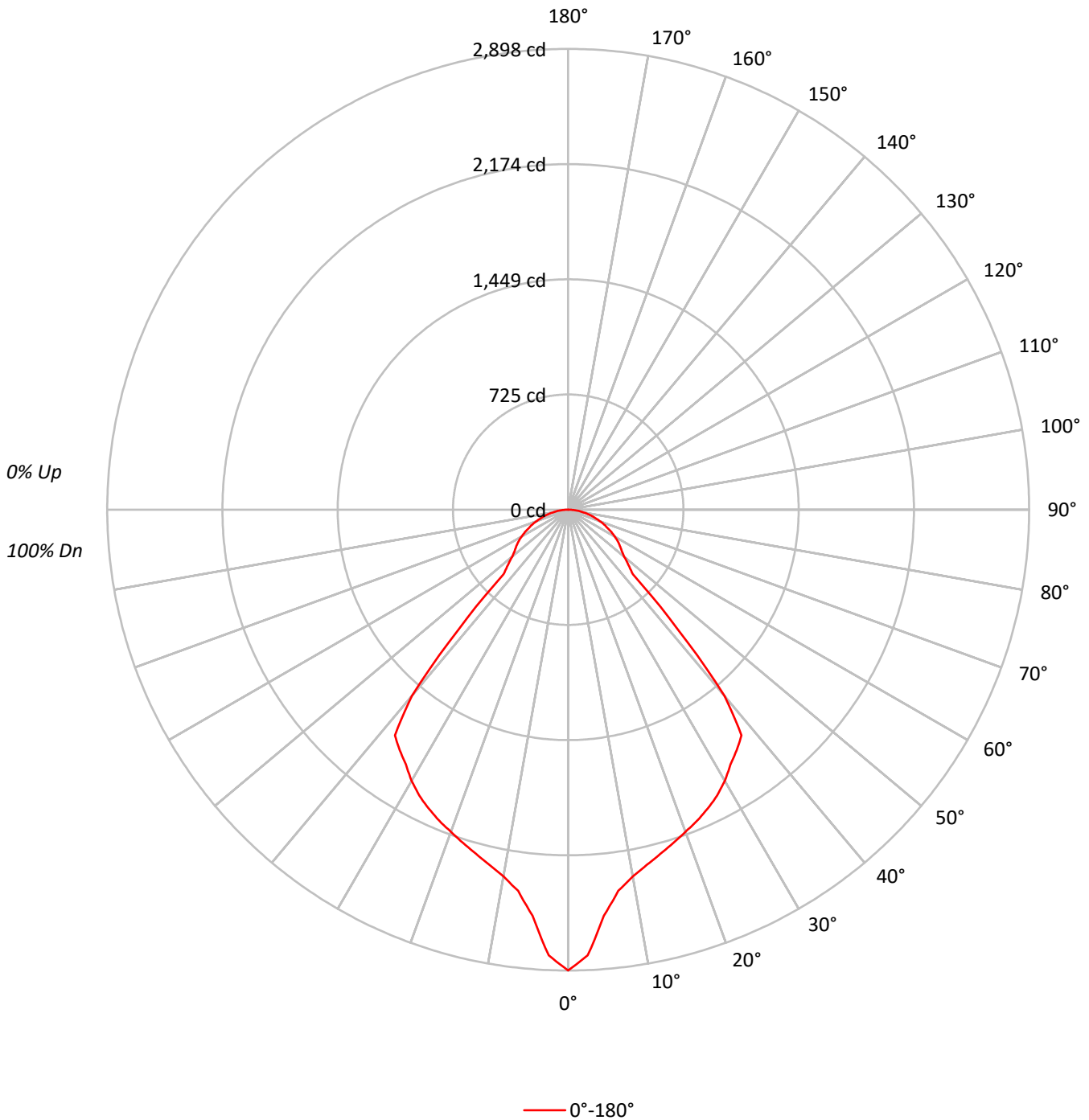
Lumens per Lamp: N/A
Luminaire Lumens: 4401.5 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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°	22339
5°	19838
10°	18327
15°	17878
20°	17685
25°	17645
30°	17524
35°	17373
40°	15398
45°	6268
50°	5517
55°	5337
60°	5224
65°	5005
70°	4803
75°	4614
80°	4426
85°	4343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	5.4
10°-20°	633.2	14.4
20°-30°	955.7	21.7
30°-40°	1139.7	25.9
40°-50°	589.4	13.4
50°-60°	355.5	8.1
60°-70°	272.4	6.2
70°-80°	163.4	3.7
80°-90°	53.6	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°	1827.7	41.5
0°-40°	2967.3	67.4
0°-60°	3912.2	88.9
0°-90°	4401.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2898	
5°	2564	239
15°	2240	633
25°	2074	956
35°	1846	1140
45°	575	589
55°	397	355
65°	274	272
75°	155	163
85°	49	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2897.7
2.5°	2805.7
5°	2563.5
7.5°	2416.3
10°	2341.2
12.5°	2287.5
15°	2240.0
17.5°	2197.1
20°	2155.7
22.5°	2117.3
25°	2074.4
27.5°	2026.9
30°	1968.6
32.5°	1899.6
35°	1846.0
37.5°	1789.2
40°	1530.1
42.5°	1019.6
45°	574.9
47.5°	512.1
50°	460.0
52.5°	423.2
55°	397.1
57.5°	369.5
60°	338.8
62.5°	306.6
65°	274.4
67.5°	243.8
70°	213.1
72.5°	182.5
75°	154.9
77.5°	125.7
80°	99.7
82.5°	73.6
85°	49.1
87.5°	24.5
90°	0.0

(END OF REPORT)