

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: P600565

Luminaire Tested: PRLX-205-90-27K-LL4-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600565
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-LL4-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

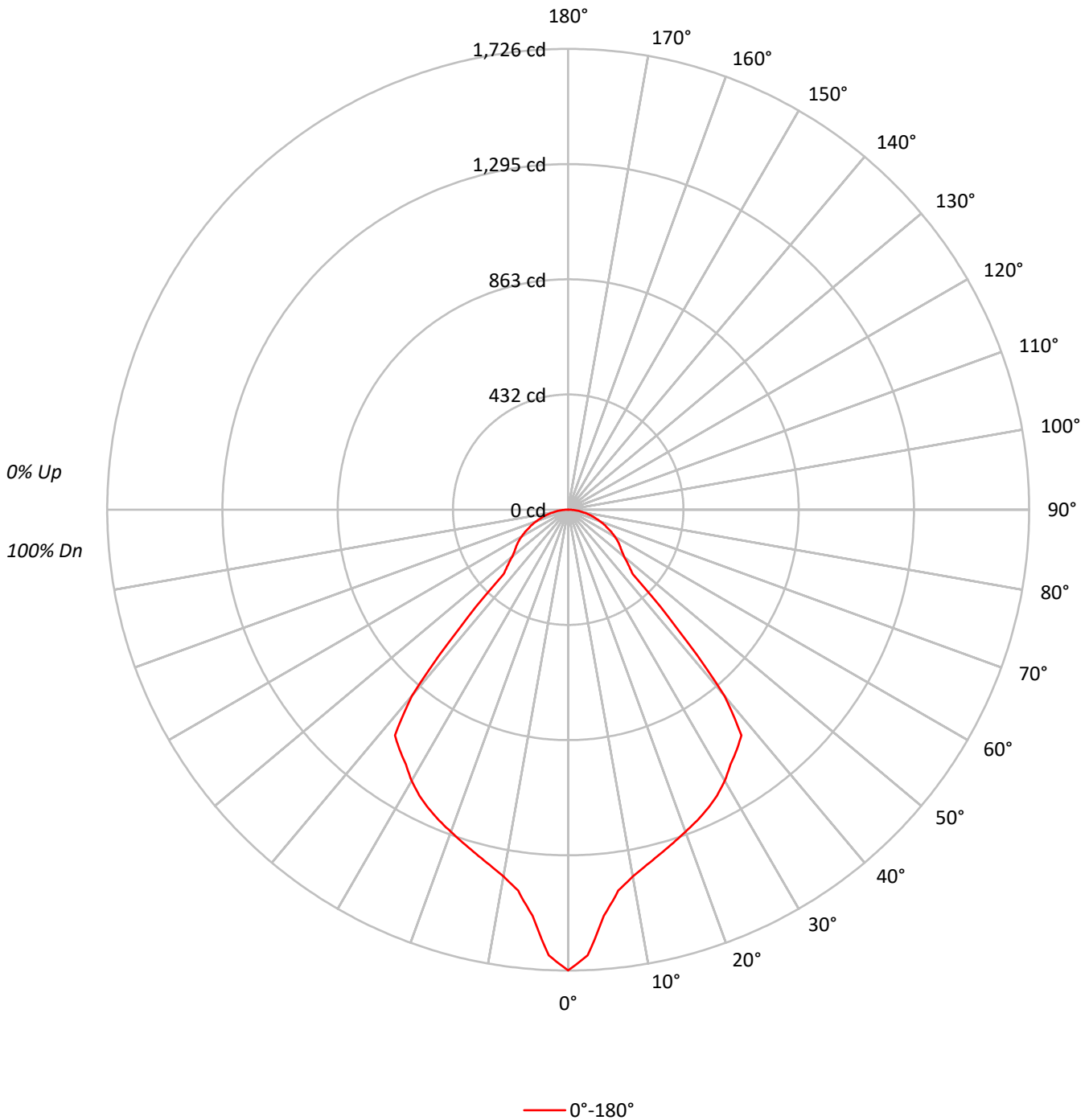
Lumens per Lamp: N/A
Luminaire Lumens: 2621.1 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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°	13303
5°	11814
10°	10914
15°	10646
20°	10531
25°	10508
30°	10435
35°	10346
40°	9170
45°	3733
50°	3285
55°	3179
60°	3111
65°	2981
70°	2860
75°	2746
80°	2633
85°	2583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3733 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	5.4
10°-20°	377.1	14.4
20°-30°	569.1	21.7
30°-40°	678.7	25.9
40°-50°	351.0	13.4
50°-60°	211.7	8.1
60°-70°	162.2	6.2
70°-80°	97.3	3.7
80°-90°	31.9	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°	1088.4	41.5
0°-40°	1767.1	67.4
0°-60°	2329.7	88.9
0°-90°	2621.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1726	
5°	1527	142
15°	1334	377
25°	1235	569
35°	1099	679
45°	342	351
55°	236	212
65°	163	162
75°	92	97
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1725.6
2.5°	1670.8
5°	1526.6
7.5°	1438.9
10°	1394.2
12.5°	1362.2
15°	1333.9
17.5°	1308.4
20°	1283.7
22.5°	1260.9
25°	1235.3
27.5°	1207.0
30°	1172.3
32.5°	1131.2
35°	1099.3
37.5°	1065.5
40°	911.2
42.5°	607.2
45°	342.4
47.5°	305.0
50°	273.9
52.5°	252.0
55°	236.5
57.5°	220.0
60°	201.8
62.5°	182.6
65°	163.4
67.5°	145.2
70°	126.9
72.5°	108.7
75°	92.2
77.5°	74.9
80°	59.3
82.5°	43.8
85°	29.2
87.5°	14.6
90°	0.0

(END OF REPORT)