

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: P600567

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600567
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-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

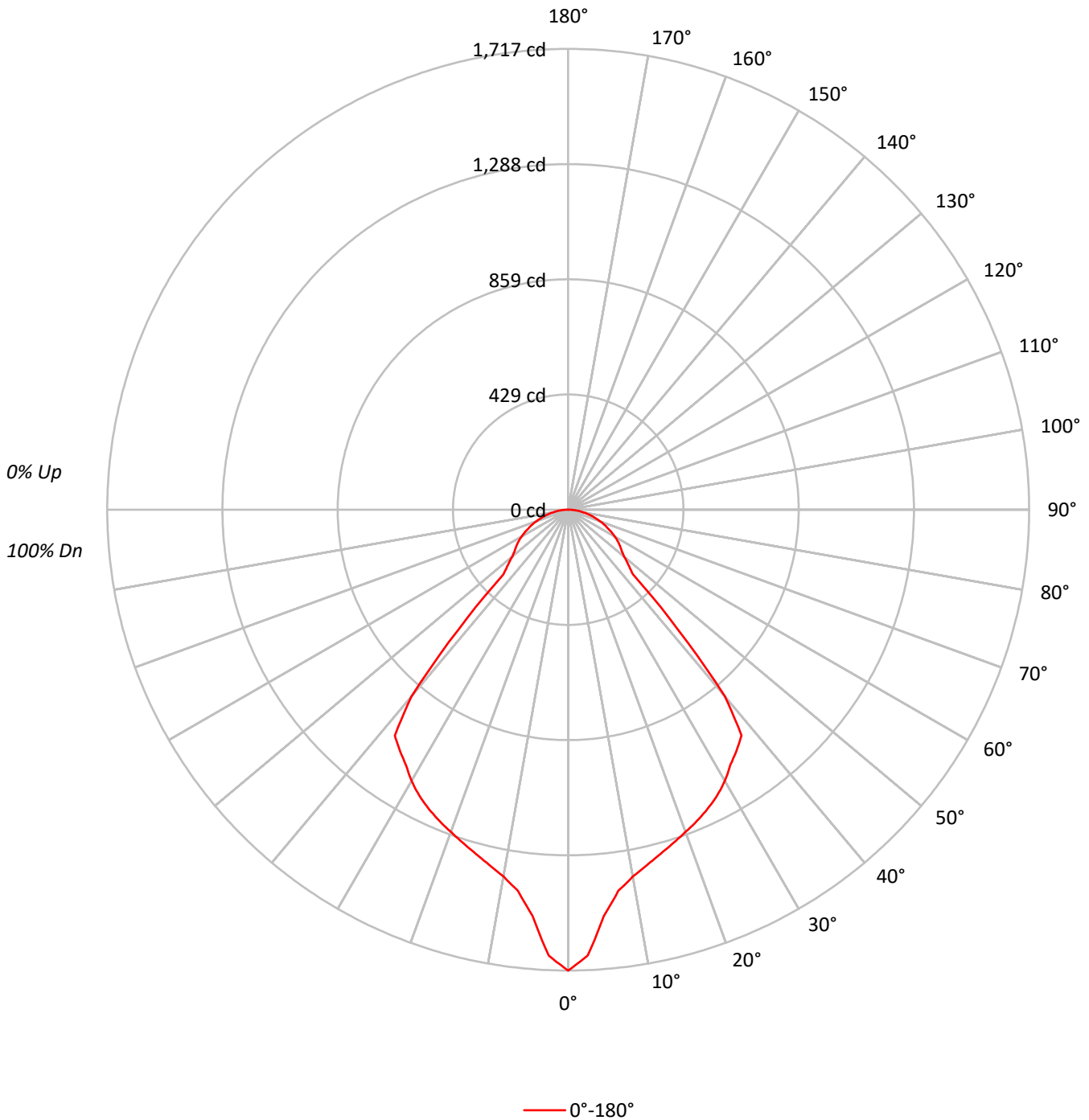
Lumens per Lamp: N/A
Luminaire Lumens: 2608.7 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 22.9
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°	13240
5°	11757
10°	10862
15°	10596
20°	10481
25°	10458
30°	10387
35°	10297
40°	9127
45°	3716
50°	3269
55°	3164
60°	3096
65°	2968
70°	2847
75°	2734
80°	2624
85°	2574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	5.4
10°-20°	375.3	14.4
20°-30°	566.4	21.7
30°-40°	675.5	25.9
40°-50°	349.3	13.4
50°-60°	210.7	8.1
60°-70°	161.4	6.2
70°-80°	96.8	3.7
80°-90°	31.8	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°	1083.2	41.5
0°-40°	1758.7	67.4
0°-60°	2318.7	88.9
0°-90°	2608.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1717	
5°	1519	141
15°	1328	375
25°	1230	566
35°	1094	675
45°	341	349
55°	235	211
65°	163	161
75°	92	97
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1717.4
2.5°	1662.9
5°	1519.3
7.5°	1432.1
10°	1387.6
12.5°	1355.8
15°	1327.6
17.5°	1302.2
20°	1277.6
22.5°	1254.9
25°	1229.5
27.5°	1201.3
30°	1166.8
32.5°	1125.9
35°	1094.1
37.5°	1060.5
40°	906.9
42.5°	604.3
45°	340.8
47.5°	303.5
50°	272.6
52.5°	250.8
55°	235.4
57.5°	219.0
60°	200.8
62.5°	181.7
65°	162.7
67.5°	144.5
70°	126.3
72.5°	108.1
75°	91.8
77.5°	74.5
80°	59.1
82.5°	43.6
85°	29.1
87.5°	14.5
90°	0.0

(END OF REPORT)