

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: P600563

Luminaire Tested: PRLX-235-90-27K-LL3-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600563
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-LL3-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

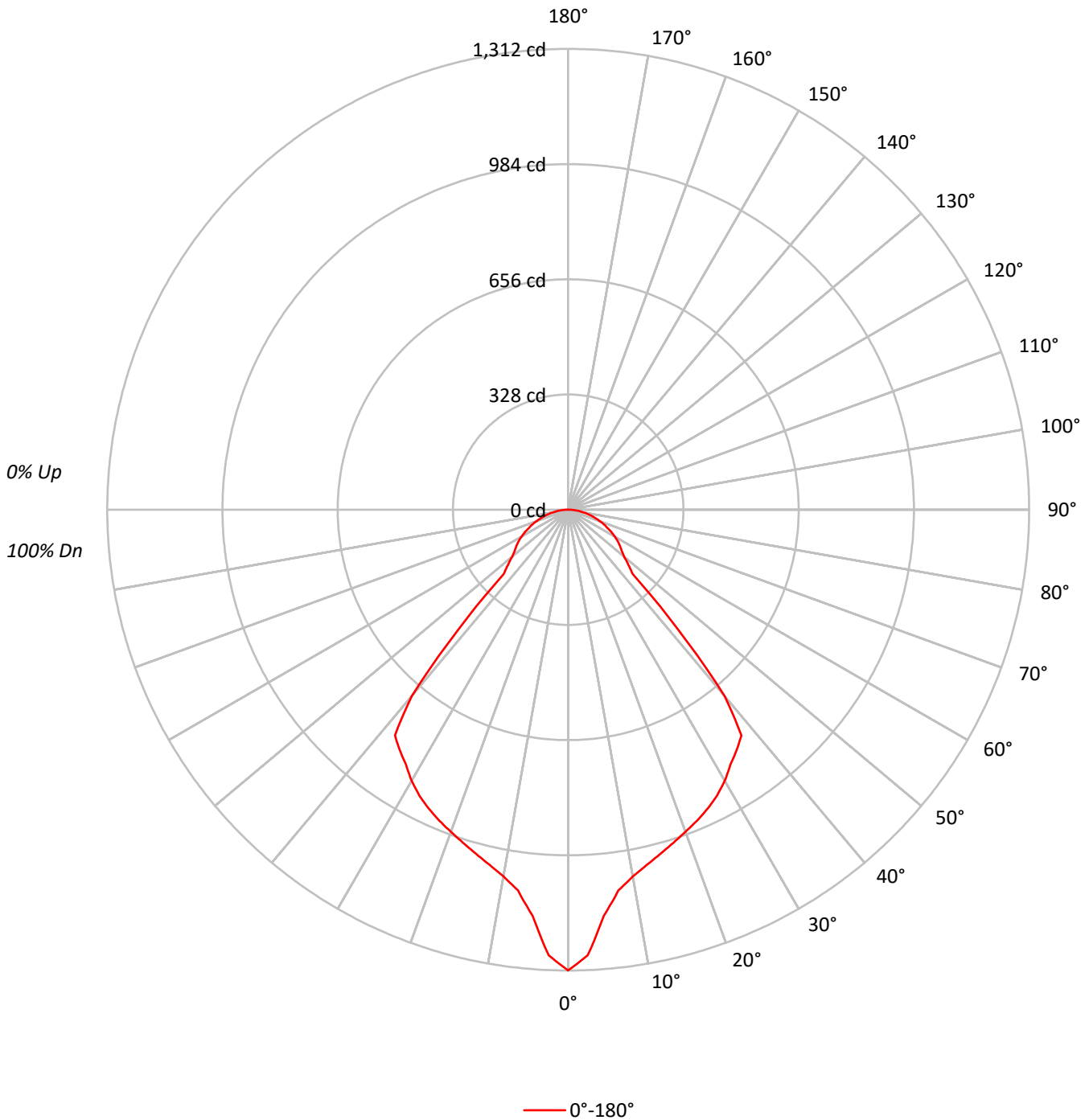
Lumens per Lamp: N/A
Luminaire Lumens: 1992.4 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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°	10112
5°	8980
10°	8296
15°	8093
20°	8005
25°	7987
30°	7932
35°	7864
40°	6970
45°	2838
50°	2497
55°	2417
60°	2365
65°	2266
70°	2175
75°	2088
80°	2002
85°	1964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	5.4
10°-20°	286.6	14.4
20°-30°	432.6	21.7
30°-40°	515.9	25.9
40°-50°	266.8	13.4
50°-60°	160.9	8.1
60°-70°	123.3	6.2
70°-80°	74.0	3.7
80°-90°	24.3	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°	827.3	41.5
0°-40°	1343.2	67.4
0°-60°	1770.9	88.9
0°-90°	1992.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1312	
5°	1160	108
15°	1014	287
25°	939	433
35°	836	516
45°	260	267
55°	180	161
65°	124	123
75°	70	74
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1311.7
2.5°	1270.1
5°	1160.4
7.5°	1093.8
10°	1059.8
12.5°	1035.5
15°	1014.0
17.5°	994.5
20°	975.8
22.5°	958.4
25°	939.0
27.5°	917.5
30°	891.1
32.5°	859.9
35°	835.6
37.5°	809.9
40°	692.6
42.5°	461.5
45°	260.3
47.5°	231.8
50°	208.2
52.5°	191.6
55°	179.8
57.5°	167.3
60°	153.4
62.5°	138.8
65°	124.2
67.5°	110.4
70°	96.5
72.5°	82.6
75°	70.1
77.5°	56.9
80°	45.1
82.5°	33.3
85°	22.2
87.5°	11.1
90°	0.0

(END OF REPORT)