

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: P600662

Luminaire Tested: PRLX-215-90-27K-LL4-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-13)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-215-90-27K-LL4-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

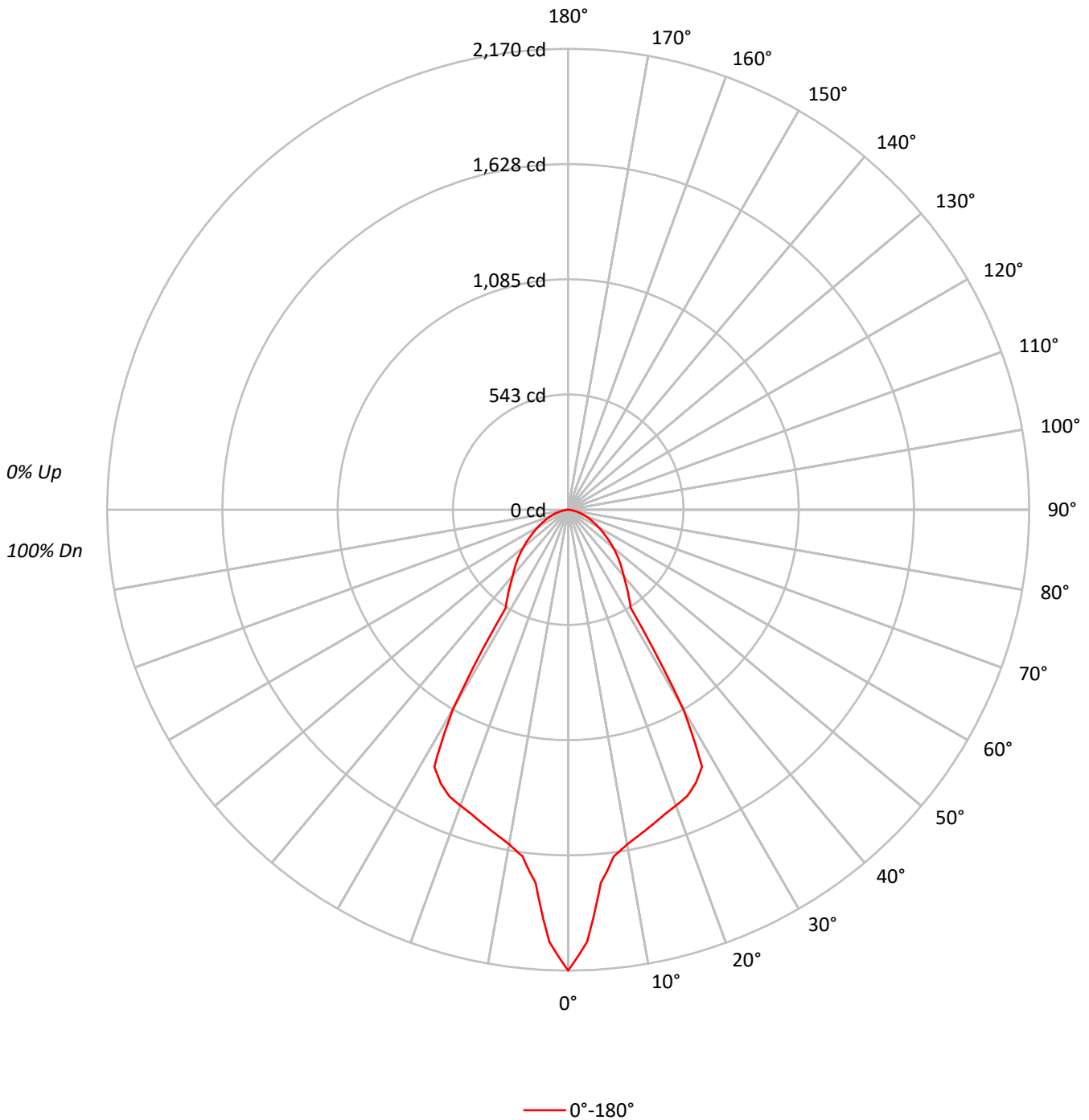
Lumens per Lamp: N/A
Luminaire Lumens: 2225.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90				90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29744
5°	24280
10°	22261
15°	21777
20°	21626
25°	21484
30°	17180
35°	8295
40°	7269
45°	6601
50°	5859
55°	5149
60°	4503
65°	3937
70°	3438
75°	2902
80°	2020
85°	723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	7.4
10°-20°	433.9	19.5
20°-30°	635.6	28.6
30°-40°	345.5	15.5
40°-50°	262.2	11.8
50°-60°	193.9	8.7
60°-70°	121.8	5.5
70°-80°	58.2	2.6
80°-90°	9.2	0.4
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°	1234.8	55.5
0°-40°	1580.3	71.0
0°-60°	2036.3	91.5
0°-90°	2225.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2170	
5°	1765	165
15°	1535	434
25°	1421	636
35°	496	345
45°	341	262
55°	216	194
65°	121	122
75°	55	58
85°	5	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2170.3
2.5°	2036.1
5°	1764.9
7.5°	1646.2
10°	1599.6
12.5°	1565.8
15°	1534.8
17.5°	1505.6
20°	1482.8
22.5°	1460.8
25°	1420.7
27.5°	1364.1
30°	1085.6
32.5°	547.8
35°	495.8
37.5°	448.3
40°	406.3
42.5°	372.5
45°	340.6
47.5°	307.7
50°	274.8
52.5°	244.7
55°	215.5
57.5°	189.0
60°	164.3
62.5°	142.4
65°	121.4
67.5°	104.1
70°	85.8
72.5°	70.3
75°	54.8
77.5°	40.2
80°	25.6
82.5°	14.6
85°	4.6
87.5°	1.8
90°	0.0

(END OF REPORT)