

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: P600572

Luminaire Tested: PRLX-235-90-27K-LL6-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600572
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-LL6-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

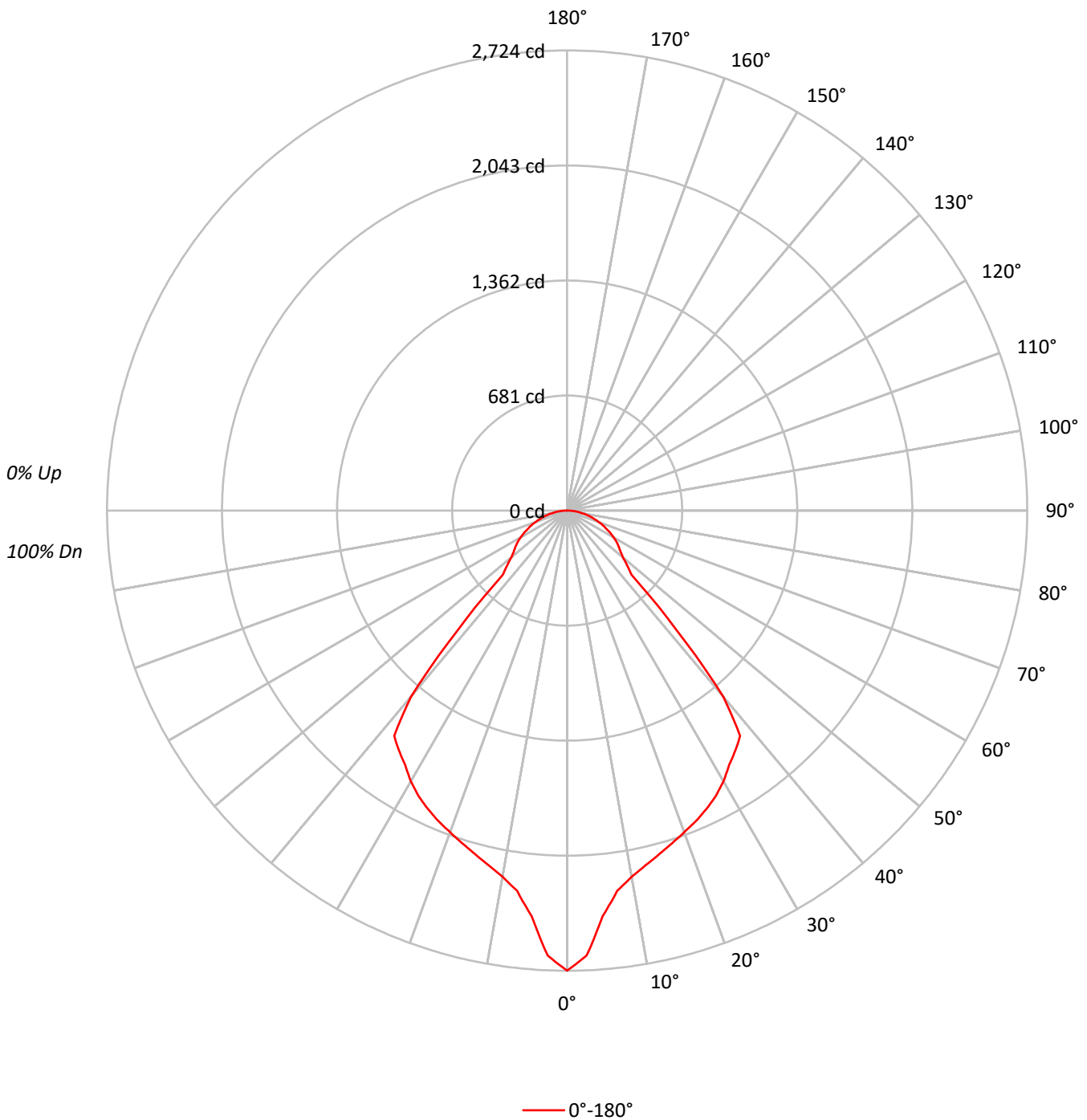
Lumens per Lamp: N/A
Luminaire Lumens: 4137.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20997
5°	18645
10°	17226
15°	16803
20°	16622
25°	16584
30°	16471
35°	16328
40°	14473
45°	5892
50°	5185
55°	5016
60°	4911
65°	4704
70°	4515
75°	4334
80°	4160
85°	4078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	5.4
10°-20°	595.2	14.4
20°-30°	898.3	21.7
30°-40°	1071.2	25.9
40°-50°	553.9	13.4
50°-60°	334.1	8.1
60°-70°	256.0	6.2
70°-80°	153.6	3.7
80°-90°	50.4	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°	1717.8	41.5
0°-40°	2789.0	67.4
0°-60°	3677.0	88.9
0°-90°	4137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2724	
5°	2409	224
15°	2105	595
25°	1950	898
35°	1735	1071
45°	540	554
55°	373	334
65°	258	256
75°	146	154
85°	46	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2723.6
2.5°	2637.1
5°	2409.4
7.5°	2271.1
10°	2200.5
12.5°	2150.0
15°	2105.4
17.5°	2065.0
20°	2026.1
22.5°	1990.1
25°	1949.7
27.5°	1905.0
30°	1850.3
32.5°	1785.4
35°	1735.0
37.5°	1681.7
40°	1438.2
42.5°	958.3
45°	540.4
47.5°	481.3
50°	432.3
52.5°	397.7
55°	373.2
57.5°	347.3
60°	318.5
62.5°	288.2
65°	257.9
67.5°	229.1
70°	200.3
72.5°	171.5
75°	145.5
77.5°	118.2
80°	93.7
82.5°	69.2
85°	46.1
87.5°	23.1
90°	0.0

(END OF REPORT)