

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: P600673

Luminaire Tested: PRLX-215-90-27K-LL8-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600673
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-LL8-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: 5302.5 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

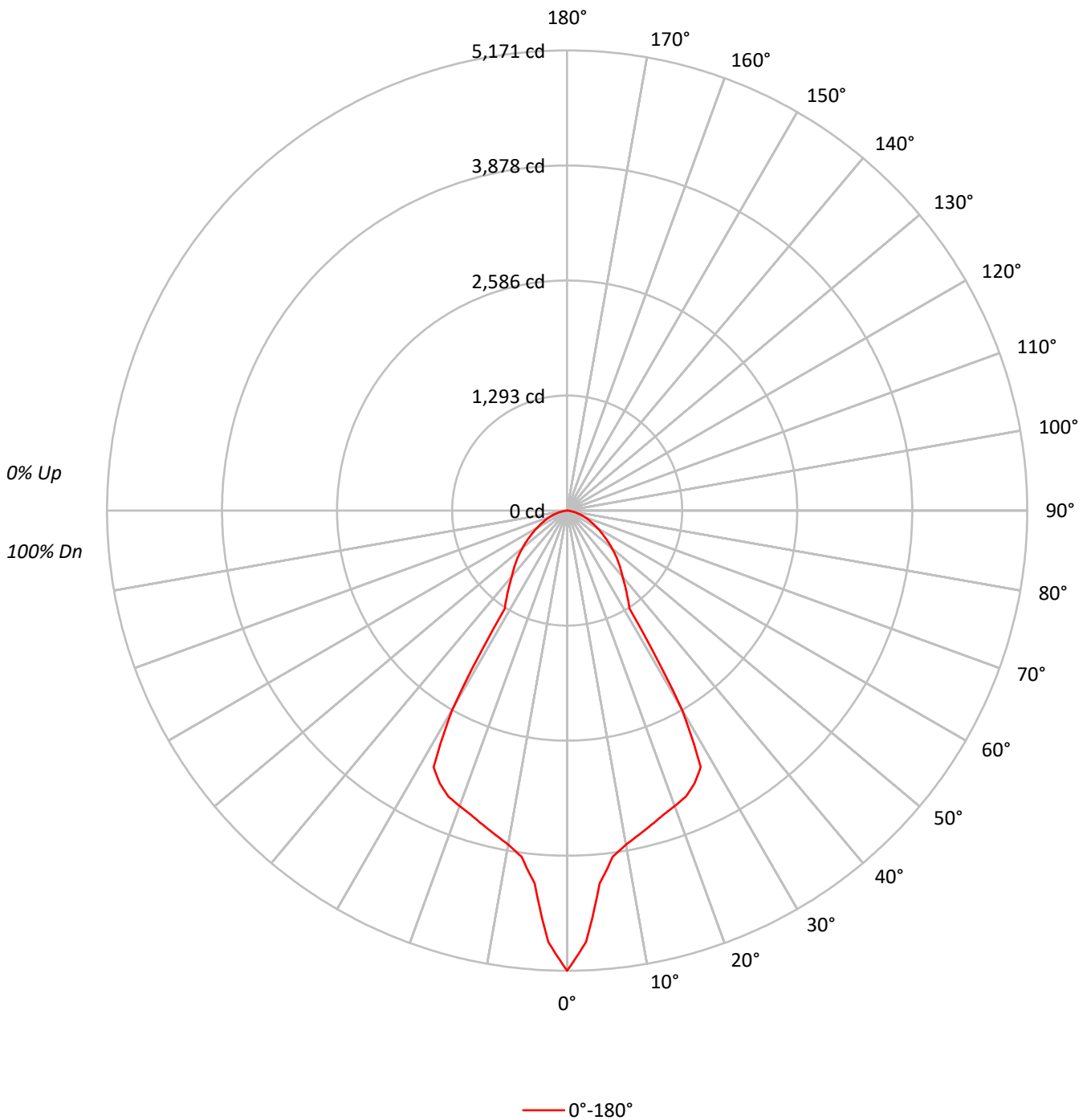
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70866
5°	57848
10°	53038
15°	51883
20°	51523
25°	51184
30°	40932
35°	19762
40°	17318
45°	15726
50°	13961
55°	12267
60°	10734
65°	9382
70°	8194
75°	6910
80°	4806
85°	1714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15726 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.7	7.4
10°-20°	1033.9	19.5
20°-30°	1514.4	28.6
30°-40°	823.1	15.5
40°-50°	624.7	11.8
50°-60°	462.0	8.7
60°-70°	290.3	5.5
70°-80°	138.7	2.6
80°-90°	21.9	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°	2941.9	55.5
0°-40°	3765.0	71.0
0°-60°	4851.6	91.5
0°-90°	5302.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5302.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5171	
5°	4205	394
15°	3657	1034
25°	3385	1514
35°	1181	823
45°	811	625
55°	513	462
65°	289	290
75°	130	139
85°	11	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5170.8
2.5°	4851.0
5°	4204.9
7.5°	3922.1
10°	3811.2
12.5°	3730.7
15°	3656.7
17.5°	3587.1
20°	3532.7
22.5°	3480.5
25°	3384.8
27.5°	3249.9
30°	2586.5
32.5°	1305.2
35°	1181.2
37.5°	1068.1
40°	968.0
42.5°	887.5
45°	811.4
47.5°	733.1
50°	654.8
52.5°	583.0
55°	513.4
57.5°	450.3
60°	391.6
62.5°	339.4
65°	289.3
67.5°	248.0
70°	204.5
72.5°	167.5
75°	130.5
77.5°	95.7
80°	60.9
82.5°	34.8
85°	10.9
87.5°	4.4
90°	0.0

(END OF REPORT)