

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: P600671

Luminaire Tested: PRLX-215-90-27K-LL7-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600671
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-LL7-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: 4575.8 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

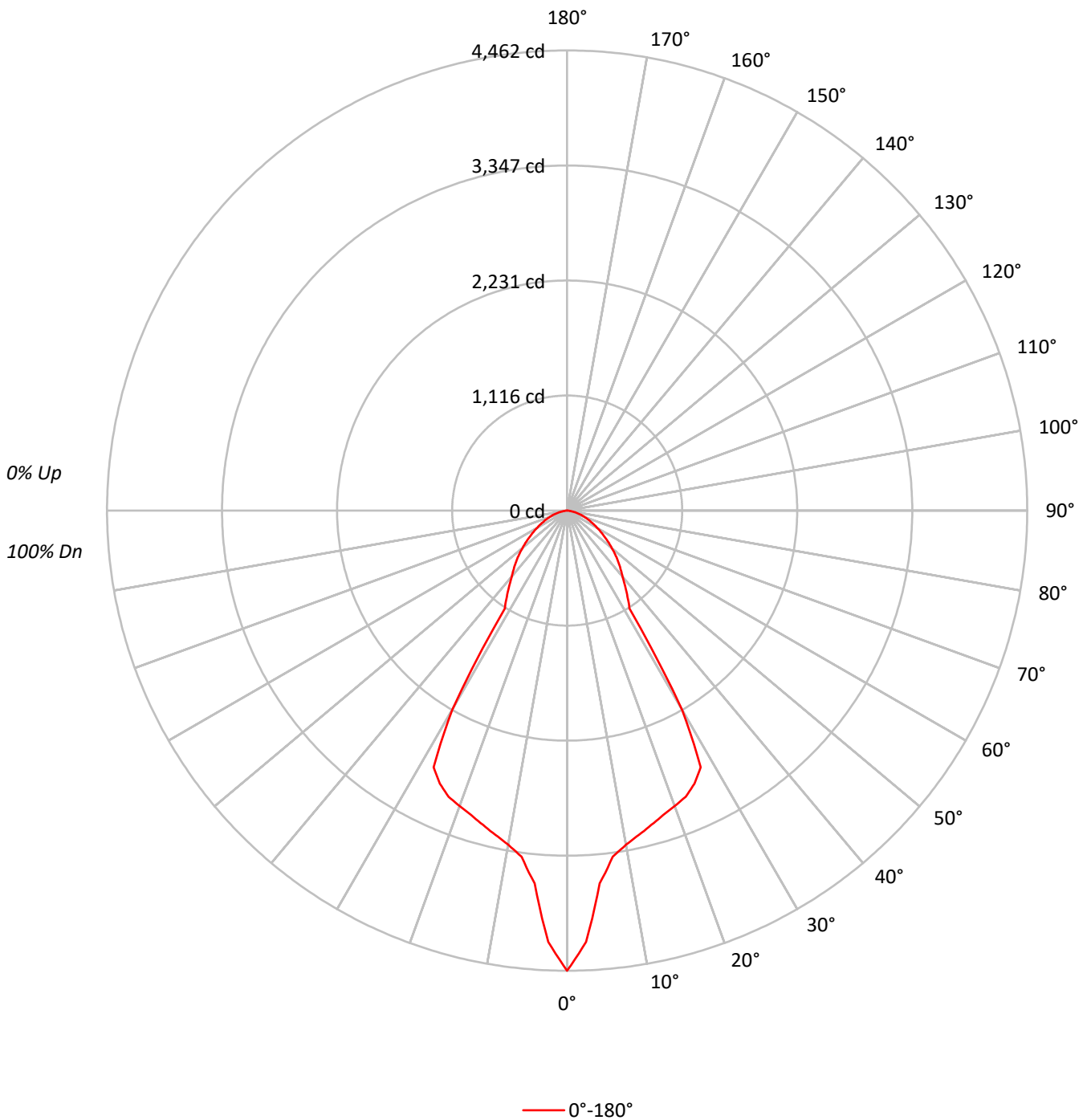
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	61153
5°	49921
10°	45770
15°	44773
20°	44463
25°	44169
30°	35322
35°	17054
40°	14946
45°	13571
50°	12047
55°	10585
60°	9262
65°	8097
70°	7073
75°	5962
80°	4151
85°	1478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	7.4
10°-20°	892.2	19.5
20°-30°	1306.9	28.6
30°-40°	710.2	15.5
40°-50°	539.1	11.8
50°-60°	398.7	8.7
60°-70°	250.5	5.5
70°-80°	119.7	2.6
80°-90°	18.9	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°	2538.8	55.5
0°-40°	3249.0	71.0
0°-60°	4186.7	91.5
0°-90°	4575.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4462	
5°	3629	340
15°	3156	892
25°	2921	1307
35°	1019	710
45°	700	539
55°	443	399
65°	250	251
75°	113	120
85°	9	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4462.1
2.5°	4186.2
5°	3628.7
7.5°	3384.6
10°	3288.9
12.5°	3219.4
15°	3155.6
17.5°	3095.5
20°	3048.6
22.5°	3003.5
25°	2920.9
27.5°	2804.6
30°	2232.0
32.5°	1126.3
35°	1019.3
37.5°	921.7
40°	835.4
42.5°	765.9
45°	700.2
47.5°	632.6
50°	565.0
52.5°	503.1
55°	443.0
57.5°	388.6
60°	337.9
62.5°	292.8
65°	249.7
67.5°	214.0
70°	176.5
72.5°	144.5
75°	112.6
77.5°	82.6
80°	52.6
82.5°	30.0
85°	9.4
87.5°	3.8
90°	0.0

(END OF REPORT)