

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: P600724

Luminaire Tested: PRLX-215-90-40K-LL1-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600724
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-215-90-40K-LL1-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 998.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

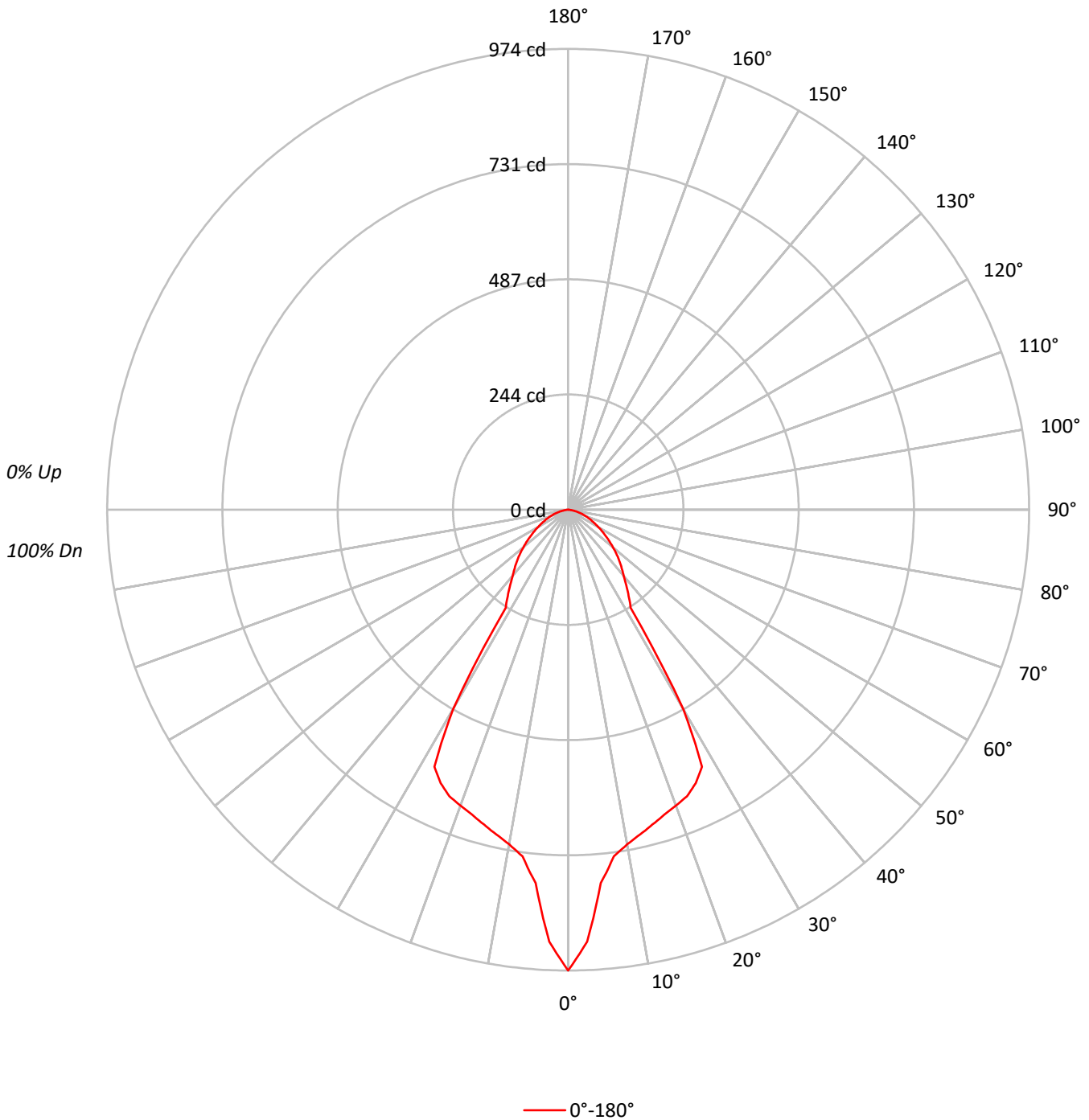
Input Watts (W): 9.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	13349
5°	10897
10°	9991
15°	9773
20°	9706
25°	9642
30°	7710
35°	3723
40°	3261
45°	2962
50°	2629
55°	2311
60°	2023
65°	1767
70°	1543
75°	1303
80°	908
85°	314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	7.4
10°-20°	194.8	19.5
20°-30°	285.3	28.6
30°-40°	155.0	15.5
40°-50°	117.7	11.8
50°-60°	87.0	8.7
60°-70°	54.7	5.5
70°-80°	26.1	2.6
80°-90°	4.1	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°	554.2	55.5
0°-40°	709.2	71.0
0°-60°	913.9	91.5
0°-90°	998.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	974	
5°	792	74
15°	689	195
25°	638	285
35°	222	155
45°	153	118
55°	97	87
65°	54	55
75°	25	26
85°	2	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	974.0
2.5°	913.8
5°	792.1
7.5°	738.8
10°	717.9
12.5°	702.8
15°	688.8
17.5°	675.7
20°	665.5
22.5°	655.6
25°	637.6
27.5°	612.2
30°	487.2
32.5°	245.9
35°	222.5
37.5°	201.2
40°	182.3
42.5°	167.2
45°	152.8
47.5°	138.1
50°	123.3
52.5°	109.8
55°	96.7
57.5°	84.8
60°	73.8
62.5°	63.9
65°	54.5
67.5°	46.7
70°	38.5
72.5°	31.6
75°	24.6
77.5°	18.0
80°	11.5
82.5°	6.6
85°	2.0
87.5°	0.8
90°	0.0

(END OF REPORT)