

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: P600683

Luminaire Tested: PRLX-215-90-30K-LL3-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600683
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-215-90-30K-LL3-UNV-STD-X-X-WHHR-FL-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

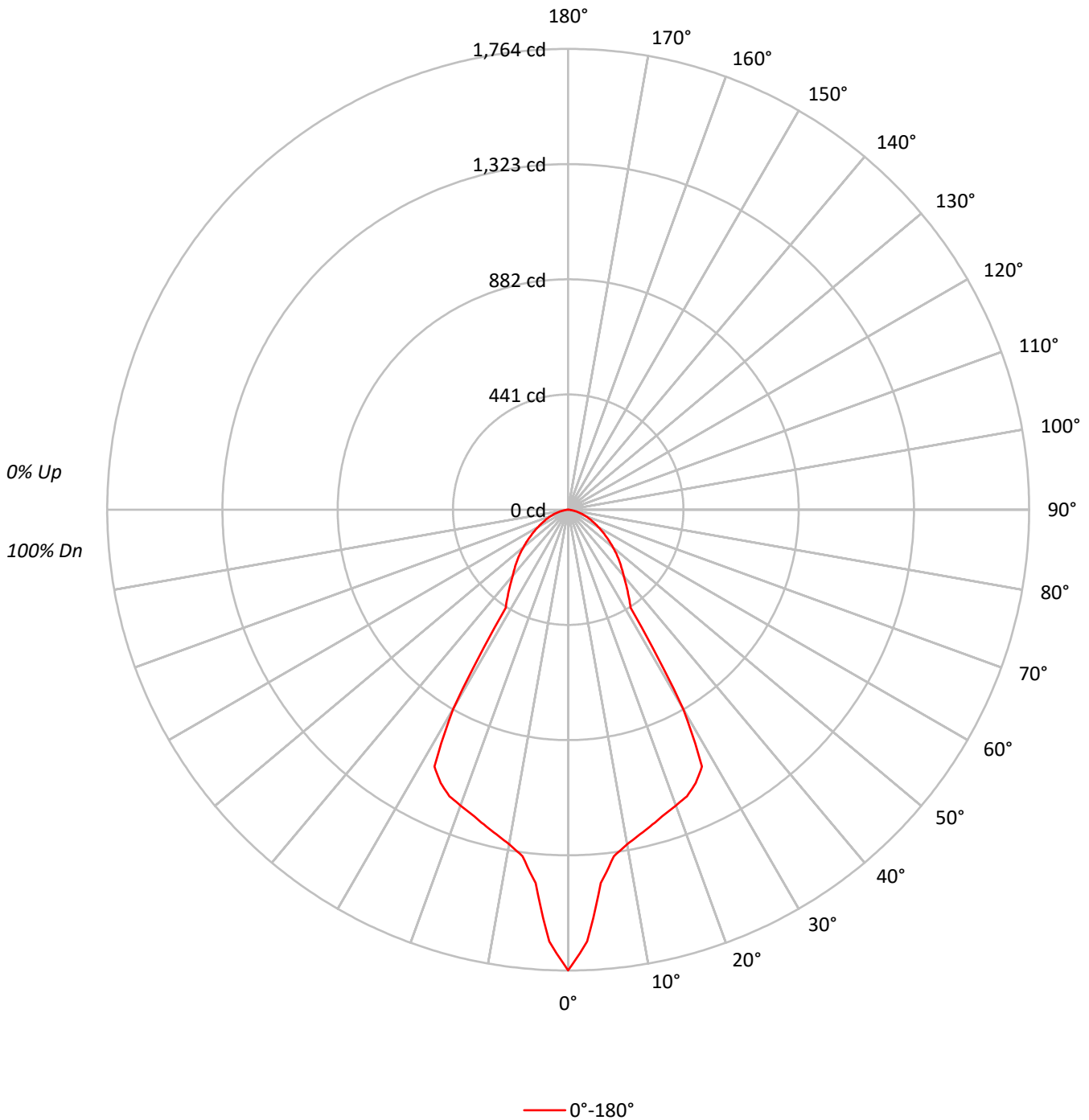
Lumens per Lamp: N/A
Luminaire Lumens: 1808.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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°	24170
5°	19729
10°	18090
15°	17696
20°	17573
25°	17457
30°	13961
35°	6741
40°	5907
45°	5363
50°	4761
55°	4184
60°	3659
65°	3201
70°	2793
75°	2356
80°	1642
85°	582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	7.4
10°-20°	352.6	19.5
20°-30°	516.5	28.6
30°-40°	280.7	15.5
40°-50°	213.0	11.8
50°-60°	157.6	8.7
60°-70°	99.0	5.5
70°-80°	47.3	2.6
80°-90°	7.5	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°	1003.4	55.5
0°-40°	1284.1	71.0
0°-60°	1654.7	91.5
0°-90°	1808.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1808.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1764	
5°	1434	134
15°	1247	353
25°	1154	517
35°	403	281
45°	277	213
55°	175	158
65°	99	99
75°	44	47
85°	4	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1763.6
2.5°	1654.5
5°	1434.1
7.5°	1337.7
10°	1299.9
12.5°	1272.4
15°	1247.2
17.5°	1223.4
20°	1204.9
22.5°	1187.1
25°	1154.4
27.5°	1108.4
30°	882.2
32.5°	445.2
35°	402.9
37.5°	364.3
40°	330.2
42.5°	302.7
45°	276.7
47.5°	250.0
50°	223.3
52.5°	198.8
55°	175.1
57.5°	153.6
60°	133.5
62.5°	115.7
65°	98.7
67.5°	84.6
70°	69.7
72.5°	57.1
75°	44.5
77.5°	32.6
80°	20.8
82.5°	11.9
85°	3.7
87.5°	1.5
90°	0.0

(END OF REPORT)