

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: P600706

Luminaire Tested: PRLX-215-90-35K-LL3-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600706
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-215-90-35K-LL3-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1868.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

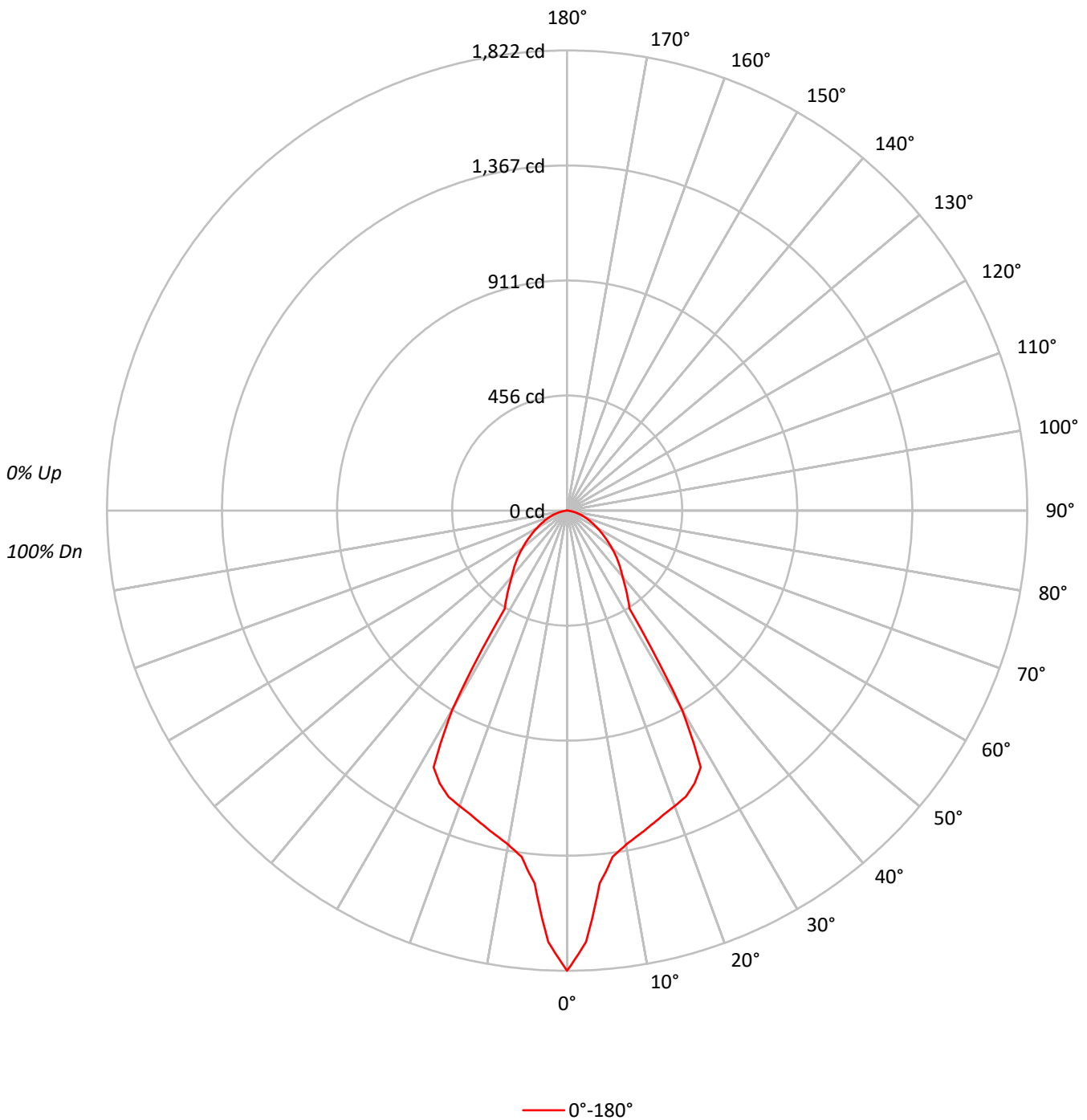
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	24971
5°	20384
10°	18688
15°	18282
20°	18155
25°	18036
30°	14423
35°	6963
40°	6103
45°	5541
50°	4919
55°	4322
60°	3783
65°	3305
70°	2889
75°	2436
80°	1697
85°	598

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5541 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	7.4
10°-20°	364.3	19.5
20°-30°	533.6	28.6
30°-40°	290.0	15.5
40°-50°	220.1	11.8
50°-60°	162.8	8.7
60°-70°	102.3	5.5
70°-80°	48.9	2.6
80°-90°	7.7	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°	1036.6	55.5
0°-40°	1326.7	71.0
0°-60°	1709.6	91.5
0°-90°	1868.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1822	
5°	1482	139
15°	1288	364
25°	1193	534
35°	416	290
45°	286	220
55°	181	163
65°	102	102
75°	46	49
85°	4	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1822.0
2.5°	1709.3
5°	1481.7
7.5°	1382.0
10°	1342.9
12.5°	1314.6
15°	1288.5
17.5°	1264.0
20°	1244.8
22.5°	1226.4
25°	1192.7
27.5°	1145.2
30°	911.4
32.5°	459.9
35°	416.2
37.5°	376.4
40°	341.1
42.5°	312.7
45°	285.9
47.5°	258.3
50°	230.7
52.5°	205.4
55°	180.9
57.5°	158.7
60°	138.0
62.5°	119.6
65°	101.9
67.5°	87.4
70°	72.1
72.5°	59.0
75°	46.0
77.5°	33.7
80°	21.5
82.5°	12.3
85°	3.8
87.5°	1.5
90°	0.0

(END OF REPORT)