

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: P600703

Luminaire Tested: PRLX-215-90-35K-LL2-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600703
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-LL2-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

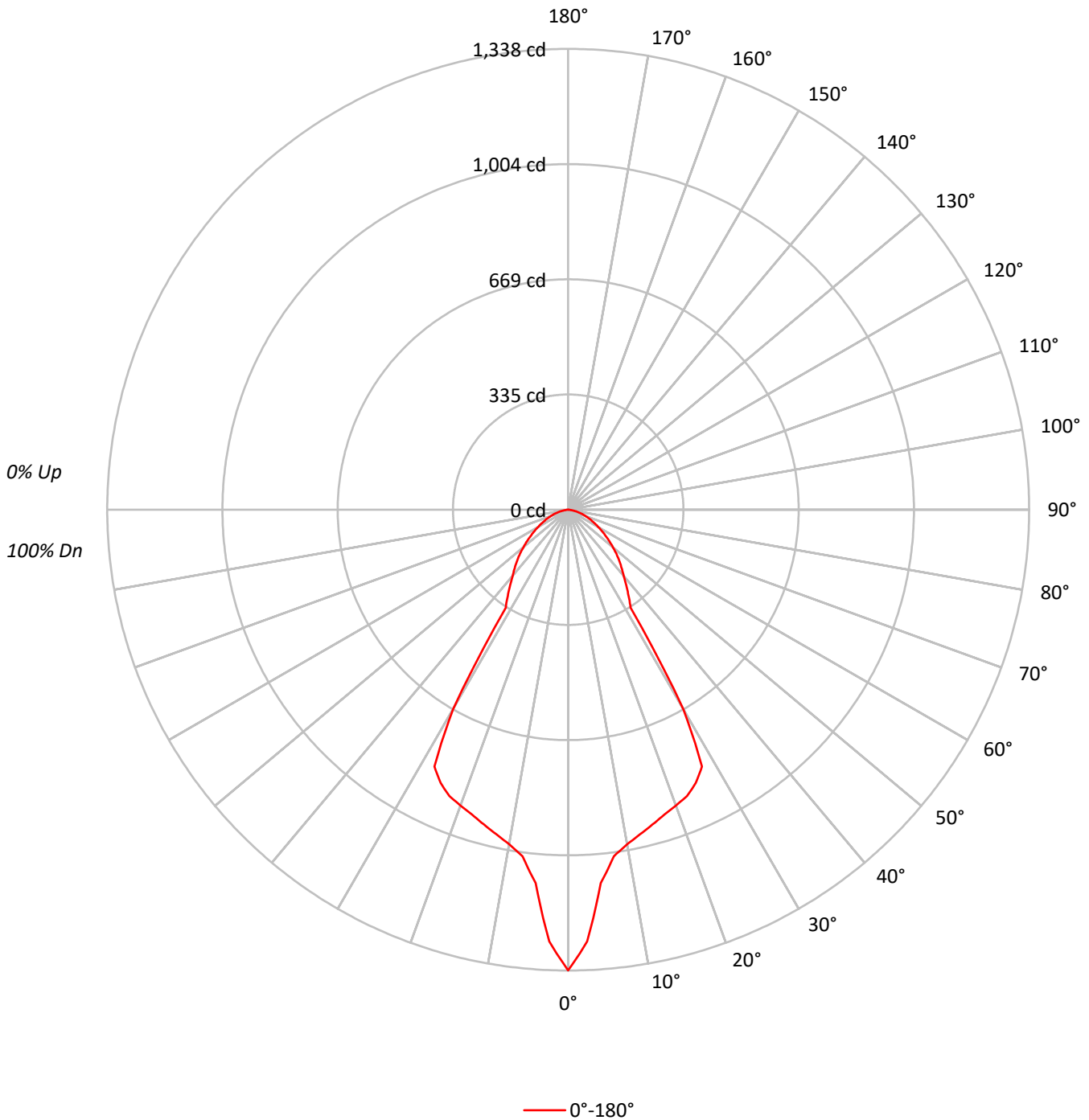
Lumens per Lamp: N/A
Luminaire Lumens: 1371.8 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 12.9
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°	18333
5°	14965
10°	13722
15°	13422
20°	13329
25°	13242
30°	10589
35°	5113
40°	4480
45°	4068
50°	3612
55°	3173
60°	2777
65°	2426
70°	2120
75°	1790
80°	1247
85°	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4068 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	7.4
10°-20°	267.5	19.5
20°-30°	391.8	28.6
30°-40°	212.9	15.5
40°-50°	161.6	11.8
50°-60°	119.5	8.7
60°-70°	75.1	5.5
70°-80°	35.9	2.6
80°-90°	5.7	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°	761.1	55.5
0°-40°	974.0	71.0
0°-60°	1255.1	91.5
0°-90°	1371.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1338	
5°	1088	102
15°	946	267
25°	876	392
35°	306	213
45°	210	162
55°	133	120
65°	75	75
75°	34	36
85°	3	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1337.7
2.5°	1254.9
5°	1087.8
7.5°	1014.7
10°	986.0
12.5°	965.1
15°	946.0
17.5°	928.0
20°	913.9
22.5°	900.4
25°	875.7
27.5°	840.8
30°	669.1
32.5°	337.7
35°	305.6
37.5°	276.3
40°	250.4
42.5°	229.6
45°	209.9
47.5°	189.6
50°	169.4
52.5°	150.8
55°	132.8
57.5°	116.5
60°	101.3
62.5°	87.8
65°	74.8
67.5°	64.2
70°	52.9
72.5°	43.3
75°	33.8
77.5°	24.8
80°	15.8
82.5°	9.0
85°	2.8
87.5°	1.1
90°	0.0

(END OF REPORT)