

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: P600712

Luminaire Tested: PRLX-215-90-35K-LL5-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600712
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-LL5-UNV-STD-X-X-WHHR-BR-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: 3406.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

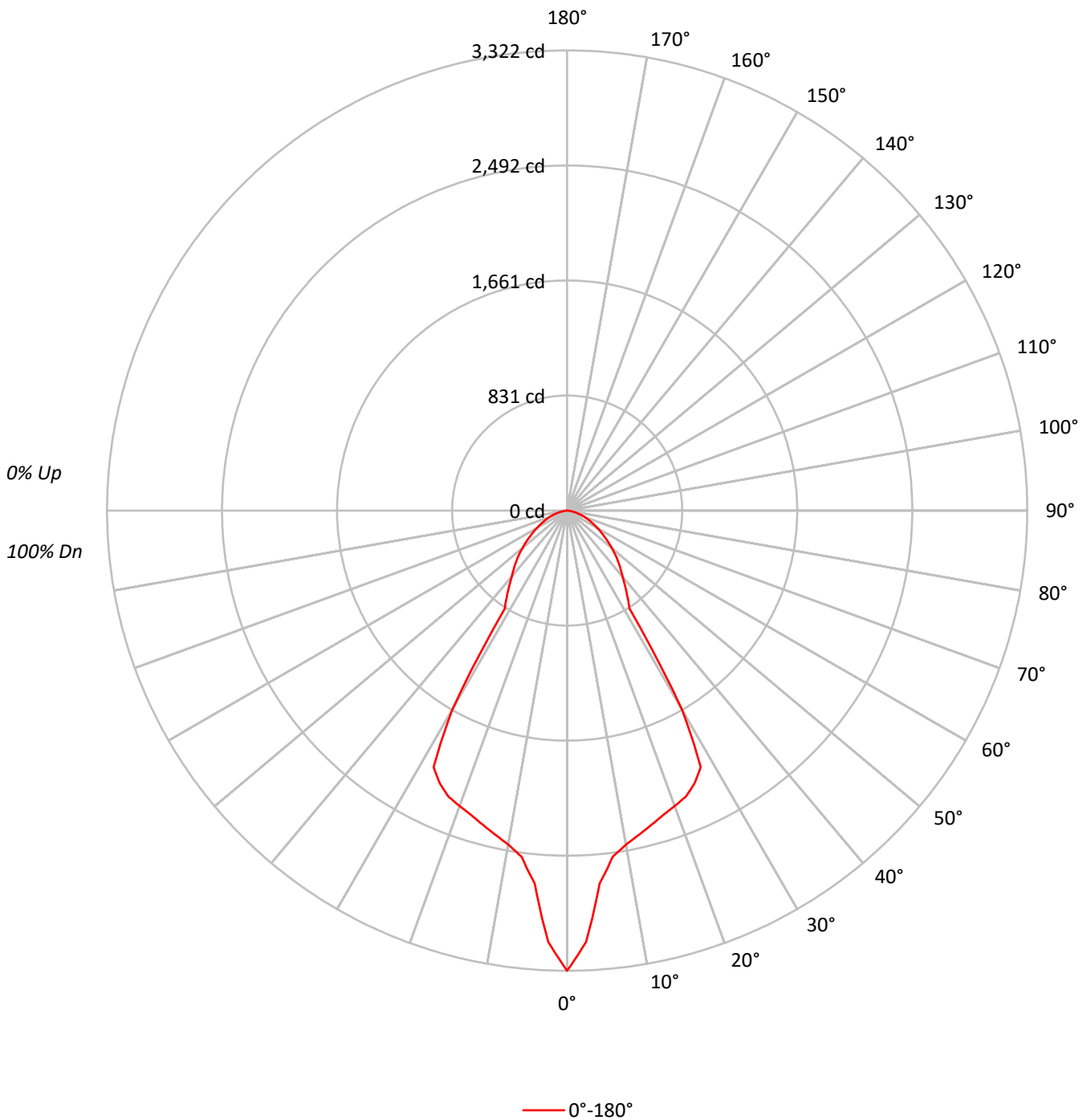
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	45525
5°	37163
10°	34073
15°	33330
20°	33100
25°	32882
30°	26295
35°	12695
40°	11126
45°	10104
50°	8968
55°	7880
60°	6894
65°	6029
70°	5265
75°	4437
80°	3086
85°	1101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10104 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	7.4
10°-20°	664.2	19.5
20°-30°	972.9	28.6
30°-40°	528.8	15.5
40°-50°	401.3	11.8
50°-60°	296.8	8.7
60°-70°	186.5	5.5
70°-80°	89.1	2.6
80°-90°	14.1	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°	1890.0	55.5
0°-40°	2418.7	71.0
0°-60°	3116.8	91.5
0°-90°	3406.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3322	
5°	2701	253
15°	2349	664
25°	2174	973
35°	759	529
45°	521	401
55°	330	297
65°	186	187
75°	84	89
85°	7	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3321.8
2.5°	3116.4
5°	2701.3
7.5°	2519.6
10°	2448.4
12.5°	2396.7
15°	2349.1
17.5°	2304.4
20°	2269.5
22.5°	2236.0
25°	2174.5
27.5°	2087.8
30°	1661.6
32.5°	838.5
35°	758.8
37.5°	686.2
40°	621.9
42.5°	570.2
45°	521.3
47.5°	470.9
50°	420.6
52.5°	374.5
55°	329.8
57.5°	289.3
60°	251.5
62.5°	218.0
65°	185.9
67.5°	159.3
70°	131.4
72.5°	107.6
75°	83.8
77.5°	61.5
80°	39.1
82.5°	22.4
85°	7.0
87.5°	2.8
90°	0.0

(END OF REPORT)