

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: P600689

Luminaire Tested: PRLX-215-90-30K-LL5-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600689
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-LL5-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

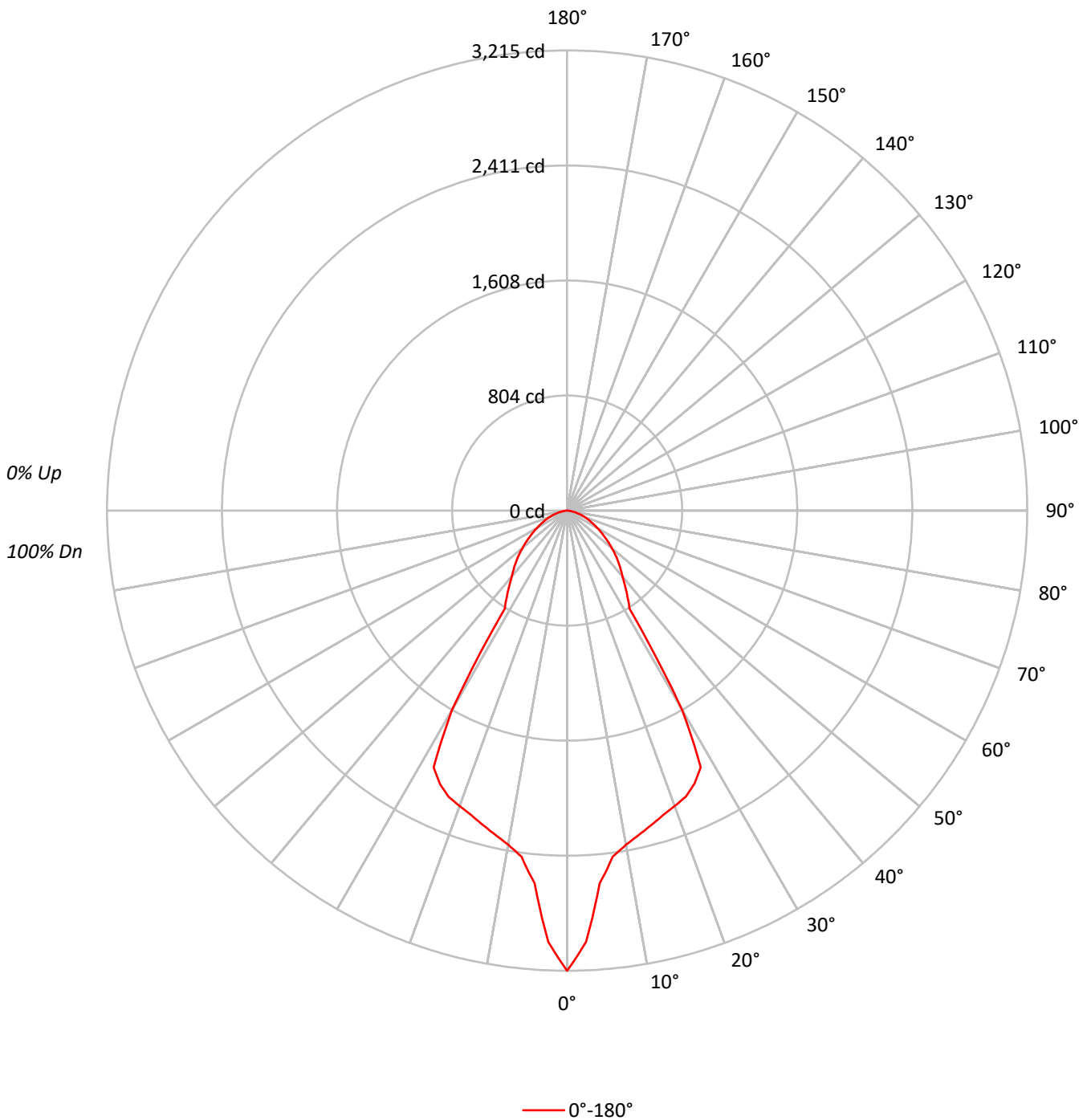
Lumens per Lamp: N/A
Luminaire Lumens: 3297.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90				90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44066
5°	35971
10°	32979
15°	32262
20°	32038
25°	31827
30°	25452
35°	12289
40°	10768
45°	9778
50°	8680
55°	7627
60°	6674
65°	5834
70°	5093
75°	4300
80°	2991
85°	1069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9778 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	7.4
10°-20°	642.9	19.5
20°-30°	941.7	28.6
30°-40°	511.8	15.5
40°-50°	388.4	11.8
50°-60°	287.3	8.7
60°-70°	180.5	5.5
70°-80°	86.2	2.6
80°-90°	13.6	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°	1829.3	55.5
0°-40°	2341.1	71.0
0°-60°	3016.8	91.5
0°-90°	3297.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3215	
5°	2615	245
15°	2274	643
25°	2105	942
35°	734	512
45°	504	388
55°	319	287
65°	180	181
75°	81	86
85°	7	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3215.3
2.5°	3016.4
5°	2614.7
7.5°	2438.8
10°	2369.8
12.5°	2319.8
15°	2273.8
17.5°	2230.5
20°	2196.7
22.5°	2164.2
25°	2104.7
27.5°	2020.9
30°	1608.3
32.5°	811.6
35°	734.5
37.5°	664.2
40°	601.9
42.5°	551.9
45°	504.5
47.5°	455.8
50°	407.1
52.5°	362.5
55°	319.2
57.5°	280.0
60°	243.5
62.5°	211.0
65°	179.9
67.5°	154.2
70°	127.1
72.5°	104.2
75°	81.2
77.5°	59.5
80°	37.9
82.5°	21.6
85°	6.8
87.5°	2.7
90°	0.0

(END OF REPORT)