

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: P600721

Luminaire Tested: PRLX-215-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600721  
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-LL8-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: 5807.6 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

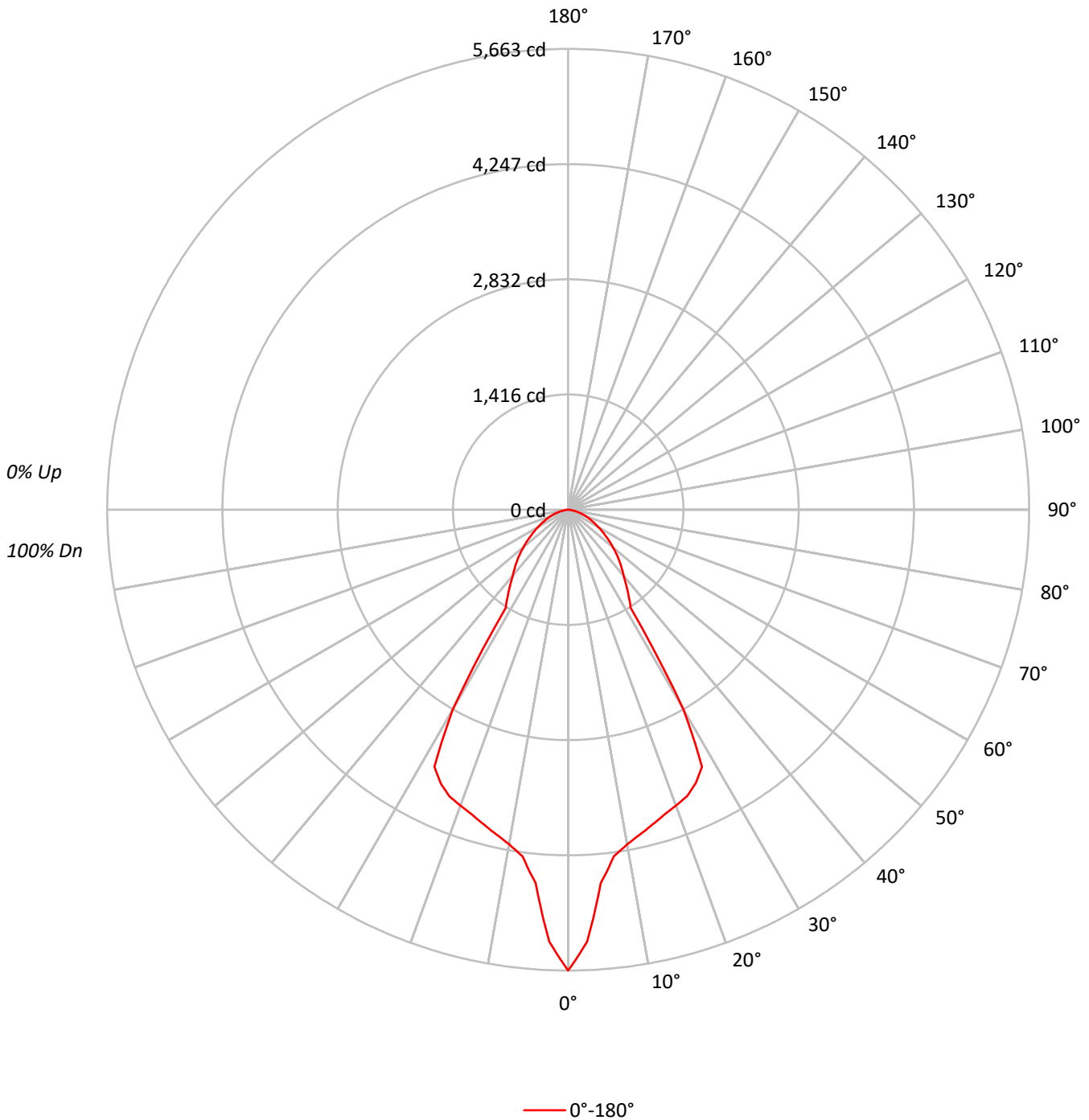
Input Watts (W): 72.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	77616
5°	63358
10°	58090
15°	56825
20°	56431
25°	56060
30°	44830
35°	21645
40°	18968
45°	17225
50°	15289
55°	13436
60°	11756
65°	10277
70°	8976
75°	7572
80°	5264
85°	1871

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17225 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.2	7.4
10°-20°	1132.4	19.5
20°-30°	1658.6	28.6
30°-40°	901.4	15.5
40°-50°	684.2	11.8
50°-60°	506.0	8.7
60°-70°	318.0	5.5
70°-80°	151.9	2.6
80°-90°	24.0	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°	3222.2	55.5
0°-40°	4123.6	71.0
0°-60°	5313.8	91.5
0°-90°	5807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5807.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5663	
5°	4605	431
15°	4005	1132
25°	3707	1659
35°	1294	901
45°	889	684
55°	562	506
65°	317	318
75°	143	152
85°	12	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5663.3
2.5°	5313.1
5°	4605.4
7.5°	4295.7
10°	4174.2
12.5°	4086.1
15°	4005.0
17.5°	3928.8
20°	3869.2
22.5°	3812.1
25°	3707.2
27.5°	3559.5
30°	2832.8
32.5°	1429.5
35°	1293.7
37.5°	1169.8
40°	1060.2
42.5°	972.1
45°	888.7
47.5°	802.9
50°	717.1
52.5°	638.5
55°	562.3
57.5°	493.2
60°	428.9
62.5°	371.7
65°	316.9
67.5°	271.6
70°	224.0
72.5°	183.5
75°	143.0
77.5°	104.8
80°	66.7
82.5°	38.1
85°	11.9
87.5°	4.8
90°	0.0

(END OF REPORT)