

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P600622

Luminaire Tested: PRLX-205-90-35K-LL7-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/6/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PentaLux  
Catalog Number: PRLX-205-90-35K-LL7-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: 5902.5 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

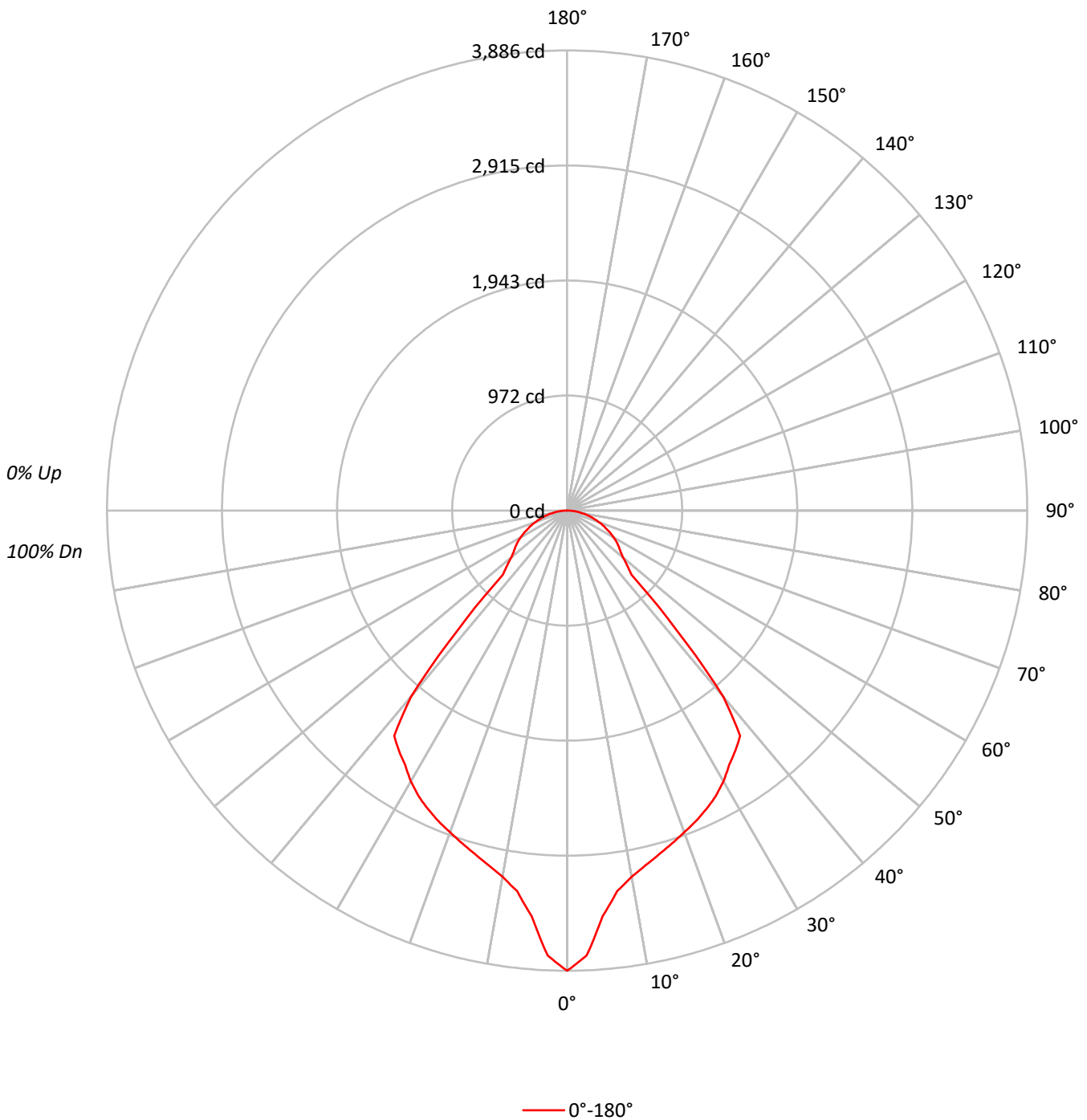
Input Watts (W): 55.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P600622

CATALOG NUMBER: PRLX-205-90-35K-LL7-UNV-STD-X-X-WHHR-BR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P600622

CATALOG NUMBER: PRLX-205-90-35K-LL7-UNV-STD-X-X-WHHR-BR-X

**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	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93	91	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47		57	51	46		56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43		53	47	42		52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45	40	36	34

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	29957
5°	26603
10°	24576
15°	23974
20°	23716
25°	23662
30°	23500
35°	23297
40°	20649
45°	8406
50°	7397
55°	7157
60°	7006
65°	6713
70°	6442
75°	6187
80°	5931
85°	5820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8406 cd/sqm



TEST NUMBER: P600622

CATALOG NUMBER: PRLX-205-90-35K-LL7-UNV-STD-X-X-WHHR-BR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.1	5.4
10°-20°	849.2	14.4
20°-30°	1281.6	21.7
30°-40°	1528.3	25.9
40°-50°	790.3	13.4
50°-60°	476.7	8.1
60°-70°	365.3	6.2
70°-80°	219.1	3.7
80°-90°	71.9	1.2
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°	2450.9	41.5
0°-40°	3979.2	67.4
0°-60°	5246.2	88.9
0°-90°	5902.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5902.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3886	
5°	3438	320
15°	3004	849
25°	2782	1282
35°	2476	1528
45°	771	790
55°	532	477
65°	368	365
75°	208	219
85°	66	72
90°	0	



TEST NUMBER: P600622

CATALOG NUMBER: PRLX-205-90-35K-LL7-UNV-STD-X-X-WHHR-BR-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3885.9
2.5°	3762.5
5°	3437.7
7.5°	3240.3
10°	3139.5
12.5°	3067.6
15°	3003.8
17.5°	2946.3
20°	2890.8
22.5°	2839.4
25°	2781.8
27.5°	2718.1
30°	2639.9
32.5°	2547.4
35°	2475.5
37.5°	2399.4
40°	2051.9
42.5°	1367.3
45°	771.0
47.5°	686.7
50°	616.8
52.5°	567.5
55°	532.5
57.5°	495.5
60°	454.4
62.5°	411.2
65°	368.0
67.5°	326.9
70°	285.8
72.5°	244.7
75°	207.7
77.5°	168.6
80°	133.6
82.5°	98.7
85°	65.8
87.5°	32.9
90°	0.0

(END OF REPORT)