

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: P600718

Luminaire Tested: PRLX-215-90-35K-LL7-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600718  
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-LL7-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**

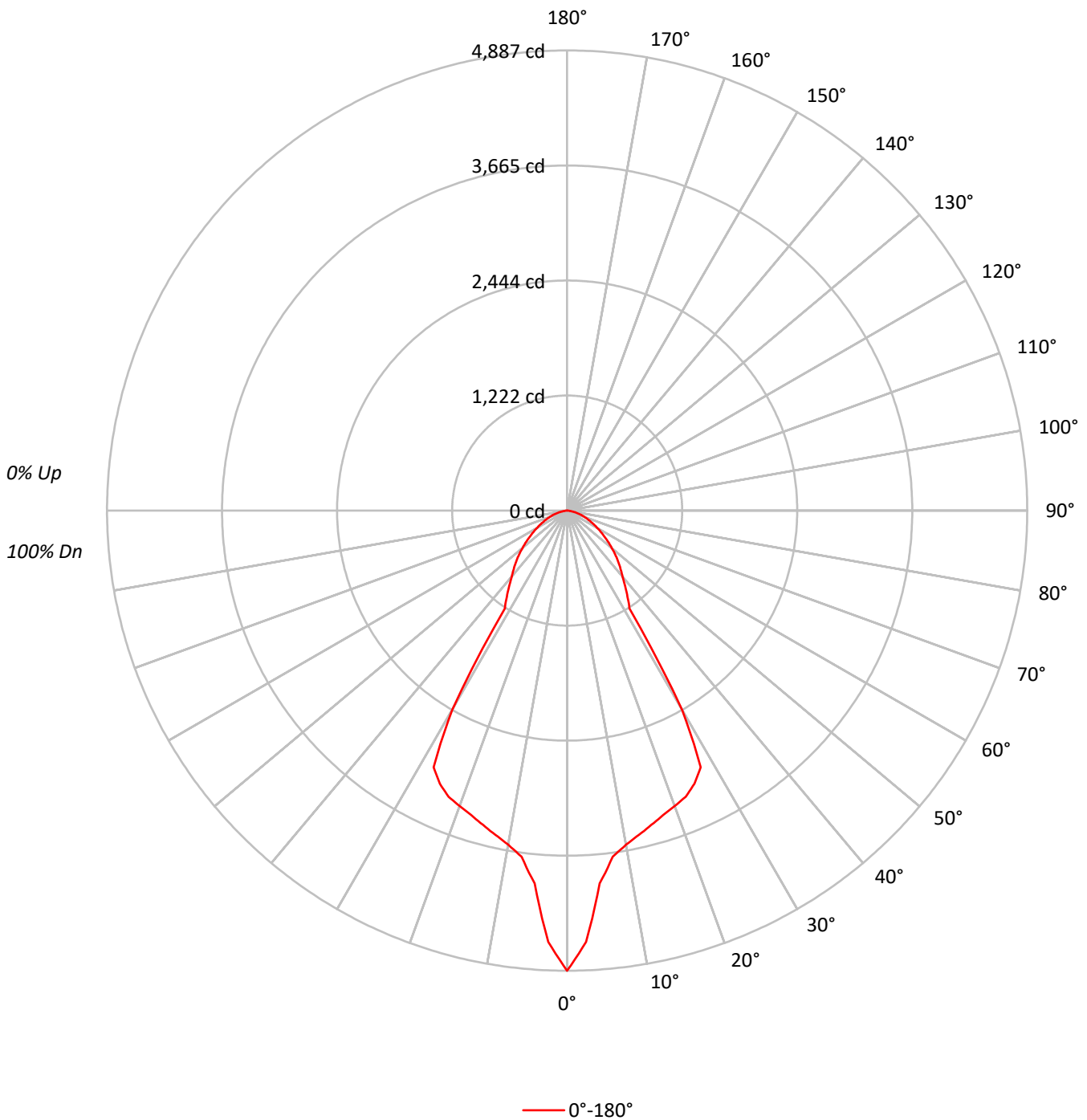
Lumens per Lamp: N/A  
Luminaire Lumens: 5011.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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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°	66979
5°	54676
10°	50130
15°	49038
20°	48698
25°	48378
30°	38686
35°	18678
40°	16368
45°	14864
50°	13196
55°	11593
60°	10144
65°	8869
70°	7746
75°	6534
80°	4546
85°	1620

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14864 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.1	7.4
10°-20°	977.2	19.5
20°-30°	1431.3	28.6
30°-40°	777.9	15.5
40°-50°	590.4	11.8
50°-60°	436.6	8.7
60°-70°	274.4	5.5
70°-80°	131.1	2.6
80°-90°	20.7	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°	2780.6	55.5
0°-40°	3558.5	71.0
0°-60°	4585.6	91.5
0°-90°	5011.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5011.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4887	
5°	3974	372
15°	3456	977
25°	3199	1431
35°	1116	778
45°	767	590
55°	485	437
65°	274	274
75°	123	131
85°	10	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4887.2
2.5°	4584.9
5°	3974.3
7.5°	3707.0
10°	3602.2
12.5°	3526.1
15°	3456.2
17.5°	3390.4
20°	3339.0
22.5°	3289.6
25°	3199.2
27.5°	3071.7
30°	2444.6
32.5°	1233.6
35°	1116.4
37.5°	1009.5
40°	914.9
42.5°	838.9
45°	766.9
47.5°	692.9
50°	618.9
52.5°	551.0
55°	485.2
57.5°	425.6
60°	370.1
62.5°	320.7
65°	273.5
67.5°	234.4
70°	193.3
72.5°	158.3
75°	123.4
77.5°	90.5
80°	57.6
82.5°	32.9
85°	10.3
87.5°	4.1
90°	0.0

(END OF REPORT)