

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: P600742

Luminaire Tested: PRLX-215-90-40K-LL7-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600742
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-215-90-40K-LL7-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5197.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

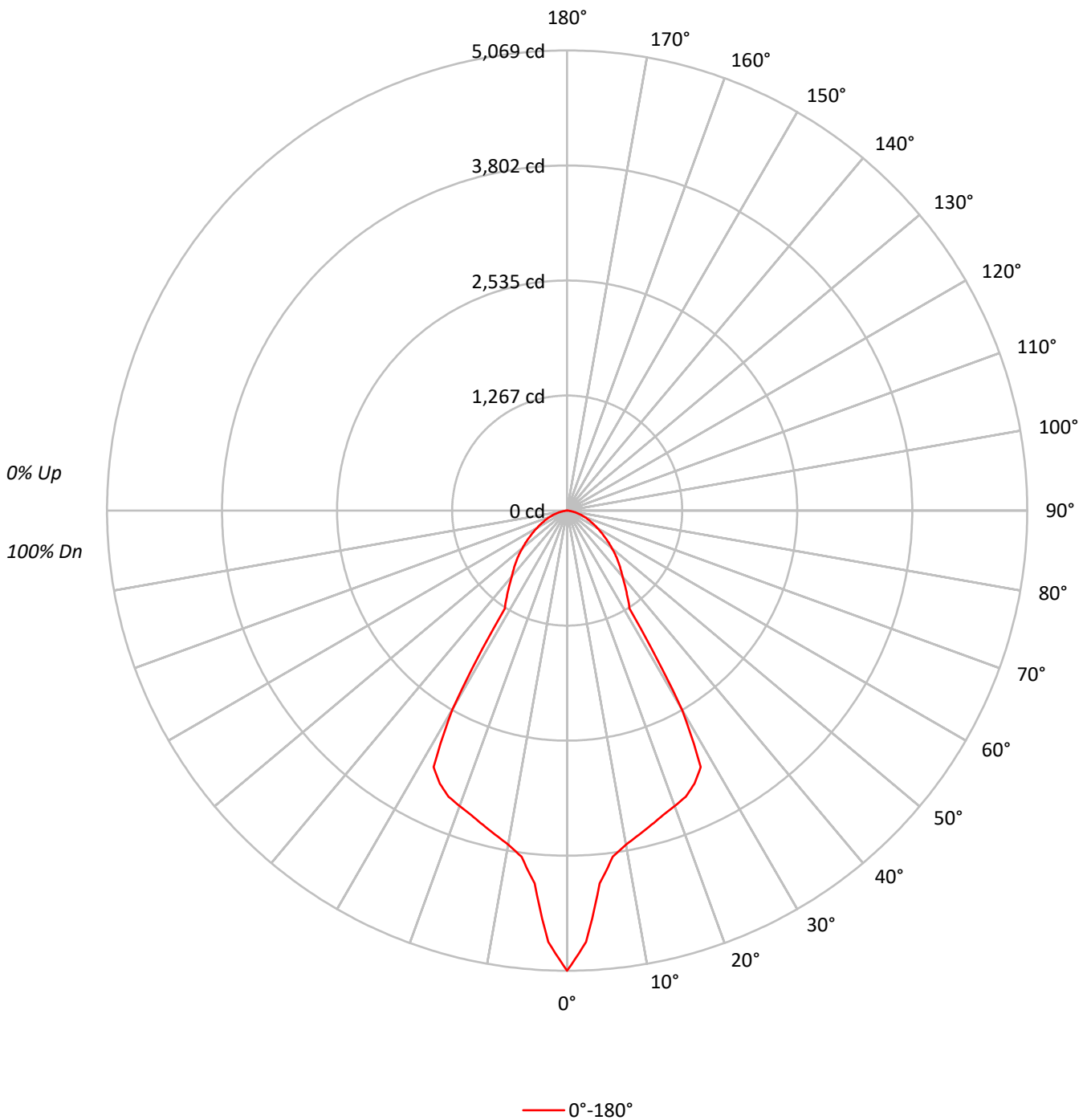
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	69468
5°	56708
10°	51992
15°	50860
20°	50508
25°	50176
30°	40125
35°	19373
40°	16976
45°	15416
50°	13686
55°	12026
60°	10520
65°	9197
70°	8030
75°	6773
80°	4712
85°	1683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.9	7.4
10°-20°	1013.5	19.5
20°-30°	1484.5	28.6
30°-40°	806.8	15.5
40°-50°	612.3	11.8
50°-60°	452.9	8.7
60°-70°	284.6	5.5
70°-80°	135.9	2.6
80°-90°	21.5	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°	2883.9	55.5
0°-40°	3690.8	71.0
0°-60°	4756.0	91.5
0°-90°	5197.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5197.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5069	
5°	4122	386
15°	3585	1013
25°	3318	1485
35°	1158	807
45°	795	612
55°	503	453
65°	284	285
75°	128	136
85°	11	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5068.8
2.5°	4755.4
5°	4122.0
7.5°	3844.8
10°	3736.0
12.5°	3657.1
15°	3584.6
17.5°	3516.4
20°	3463.1
22.5°	3411.9
25°	3318.1
27.5°	3185.9
30°	2535.5
32.5°	1279.5
35°	1157.9
37.5°	1047.0
40°	948.9
42.5°	870.0
45°	795.4
47.5°	718.6
50°	641.9
52.5°	571.5
55°	503.3
57.5°	441.4
60°	383.8
62.5°	332.7
65°	283.6
67.5°	243.1
70°	200.4
72.5°	164.2
75°	127.9
77.5°	93.8
80°	59.7
82.5°	34.1
85°	10.7
87.5°	4.3
90°	0.0

(END OF REPORT)