

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: P600558

Luminaire Tested: PRLX-225-90-27K-LL1-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600558
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-225-90-27K-LL1-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1030.6 lumens
Efficiency: N/A
Efficacy: 108.5 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

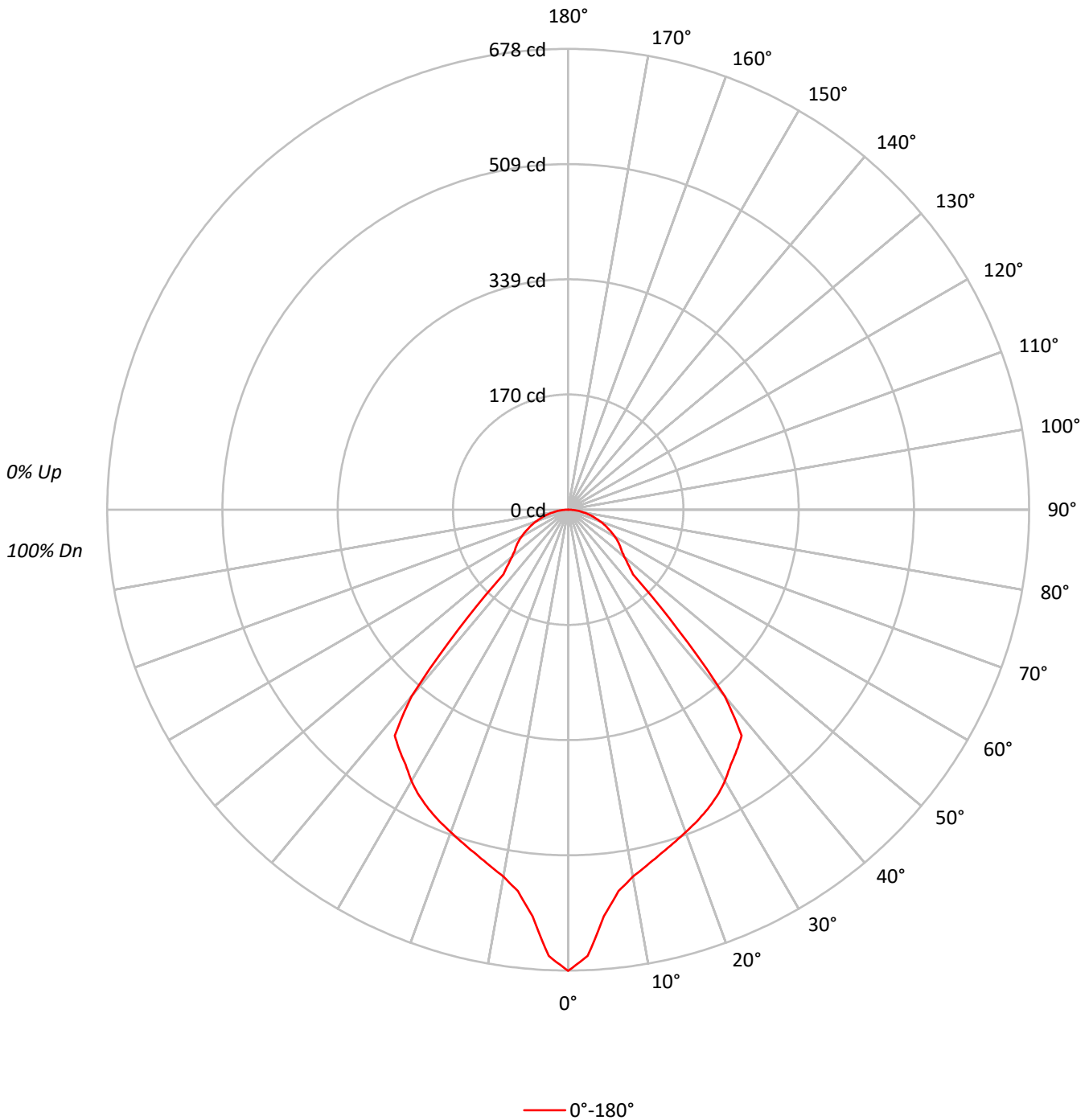
Input Watts (W): 9.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5231
5°	4645
10°	4291
15°	4186
20°	4141
25°	4131
30°	4104
35°	4068
40°	3606
45°	1467
50°	1292
55°	1250
60°	1223
65°	1173
70°	1125
75°	1081
80°	1034
85°	1017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1467 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	5.4
10°-20°	148.3	14.4
20°-30°	223.8	21.7
30°-40°	266.9	25.9
40°-50°	138.0	13.4
50°-60°	83.2	8.1
60°-70°	63.8	6.2
70°-80°	38.2	3.7
80°-90°	12.5	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°	428.0	41.5
0°-40°	694.9	67.4
0°-60°	916.1	88.9
0°-90°	1030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	678	
5°	600	56
15°	524	148
25°	486	224
35°	432	267
45°	135	138
55°	93	83
65°	64	64
75°	36	38
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	678.5
2.5°	657.0
5°	600.3
7.5°	565.8
10°	548.2
12.5°	535.7
15°	524.5
17.5°	514.5
20°	504.8
22.5°	495.8
25°	485.7
27.5°	474.6
30°	461.0
32.5°	444.8
35°	432.3
37.5°	419.0
40°	358.3
42.5°	238.7
45°	134.6
47.5°	119.9
50°	107.7
52.5°	99.1
55°	93.0
57.5°	86.5
60°	79.3
62.5°	71.8
65°	64.3
67.5°	57.1
70°	49.9
72.5°	42.7
75°	36.3
77.5°	29.4
80°	23.3
82.5°	17.2
85°	11.5
87.5°	5.7
90°	0.0

(END OF REPORT)