

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: P600570

Luminaire Tested: PRLX-235-90-27K-LL5-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600570
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-235-90-27K-LL5-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: 3645.6 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

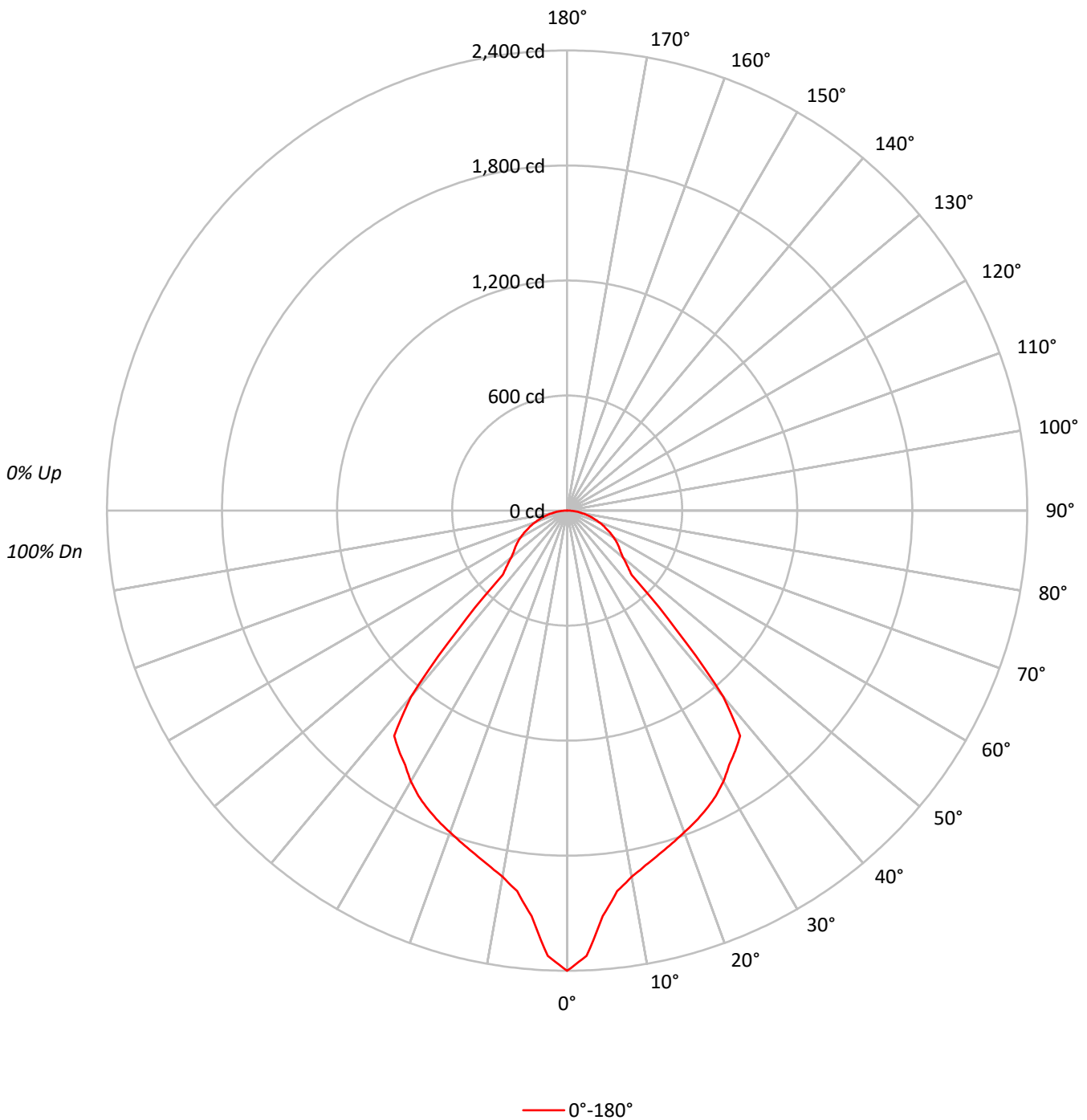
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	18503
5°	16431
10°	15179
15°	14807
20°	14648
25°	14615
30°	14514
35°	14389
40°	12754
45°	5192
50°	4569
55°	4421
60°	4326
65°	4146
70°	3978
75°	3822
80°	3663
85°	3591

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	5.4
10°-20°	524.5	14.4
20°-30°	791.6	21.7
30°-40°	944.0	25.9
40°-50°	488.1	13.4
50°-60°	294.4	8.1
60°-70°	225.6	6.2
70°-80°	135.3	3.7
80°-90°	44.4	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°	1513.8	41.5
0°-40°	2457.7	67.4
0°-60°	3240.3	88.9
0°-90°	3645.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2400	
5°	2123	198
15°	1855	524
25°	1718	792
35°	1529	944
45°	476	488
55°	329	294
65°	227	226
75°	128	135
85°	41	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2400.1
2.5°	2323.9
5°	2123.2
7.5°	2001.3
10°	1939.1
12.5°	1894.7
15°	1855.3
17.5°	1819.7
20°	1785.5
22.5°	1753.7
25°	1718.2
27.5°	1678.8
30°	1630.5
32.5°	1573.4
35°	1528.9
37.5°	1482.0
40°	1267.3
42.5°	844.5
45°	476.2
47.5°	424.1
50°	381.0
52.5°	350.5
55°	328.9
57.5°	306.0
60°	280.6
62.5°	254.0
65°	227.3
67.5°	201.9
70°	176.5
72.5°	151.1
75°	128.3
77.5°	104.1
80°	82.5
82.5°	61.0
85°	40.6
87.5°	20.3
90°	0.0

(END OF REPORT)