

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: P600624

Luminaire Tested: PRLX-235-90-35K-LL7-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600624
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-235-90-35K-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: 5874.5 lumens
Efficiency: N/A
Efficacy: 106.0 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

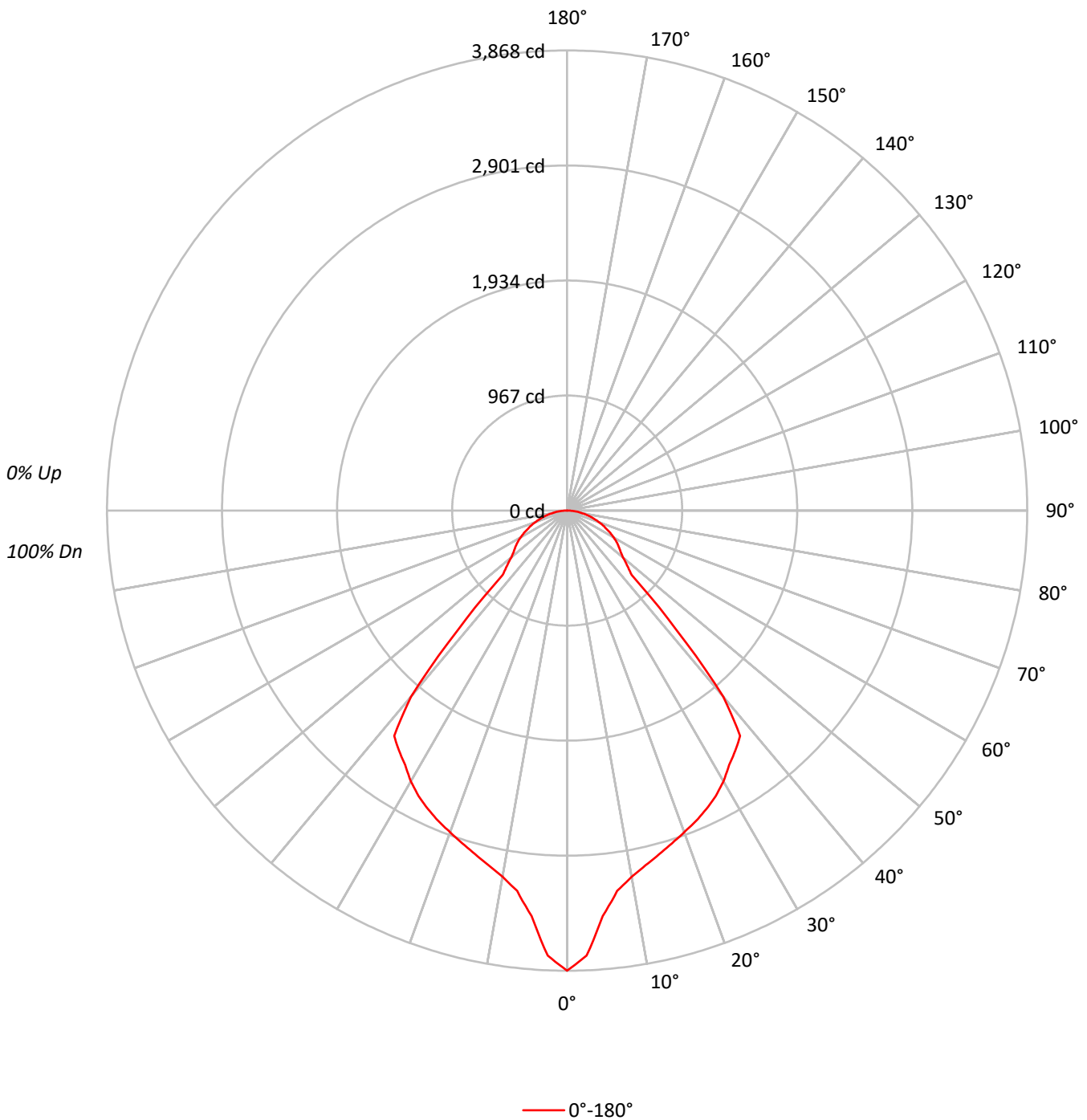
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	29815
5°	26477
10°	24460
15°	23860
20°	23603
25°	23550
30°	23388
35°	23186
40°	20552
45°	8366
50°	7363
55°	7123
60°	6972
65°	6682
70°	6410
75°	6157
80°	5905
85°	5794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	5.4
10°-20°	845.1	14.4
20°-30°	1275.6	21.7
30°-40°	1521.1	25.9
40°-50°	786.6	13.4
50°-60°	474.4	8.1
60°-70°	363.6	6.2
70°-80°	218.1	3.7
80°-90°	71.5	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°	2439.3	41.5
0°-40°	3960.4	67.4
0°-60°	5221.4	88.9
0°-90°	5874.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5874.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3868	
5°	3421	319
15°	2990	845
25°	2769	1276
35°	2464	1521
45°	767	787
55°	530	474
65°	366	364
75°	207	218
85°	66	72
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3867.5
2.5°	3744.7
5°	3421.4
7.5°	3224.9
10°	3124.7
12.5°	3053.0
15°	2989.6
17.5°	2932.3
20°	2877.1
22.5°	2825.9
25°	2768.6
27.5°	2705.2
30°	2627.4
32.5°	2535.3
35°	2463.7
37.5°	2388.0
40°	2042.2
42.5°	1360.8
45°	767.4
47.5°	683.5
50°	613.9
52.5°	564.8
55°	530.0
57.5°	493.2
60°	452.2
62.5°	409.3
65°	366.3
67.5°	325.4
70°	284.4
72.5°	243.5
75°	206.7
77.5°	167.8
80°	133.0
82.5°	98.2
85°	65.5
87.5°	32.7
90°	0.0

(END OF REPORT)