

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: P600598

Luminaire Tested: PRLX-235-90-30K-LL7-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600598
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-235-90-30K-LL7-UNV-STD-X-X-WHHR-BR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5713.2 lumens
Efficiency: N/A
Efficacy: 103.1 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

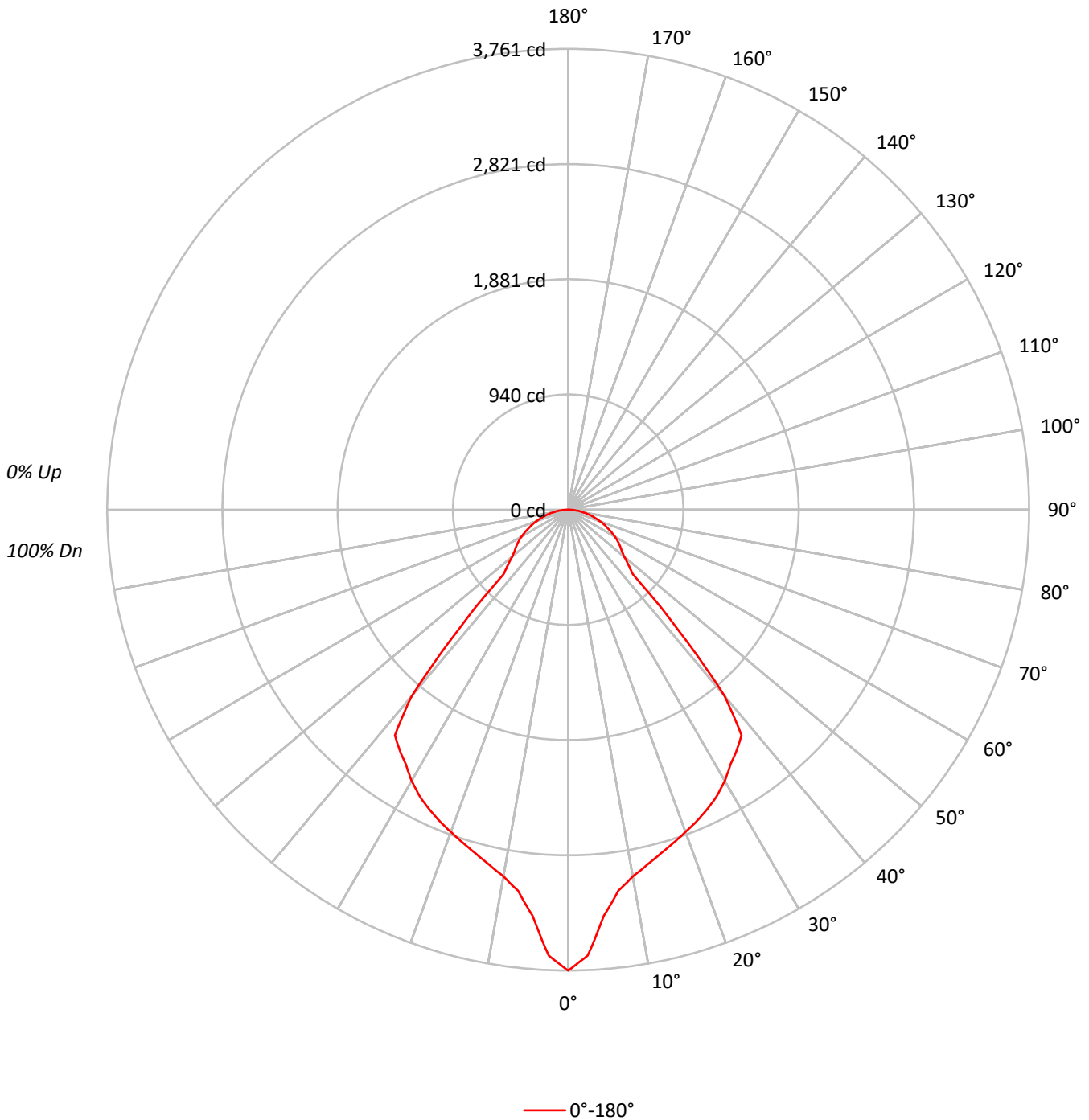
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	28996
5°	25749
10°	23789
15°	23205
20°	22955
25°	22903
30°	22747
35°	22550
40°	19987
45°	8136
50°	7160
55°	6927
60°	6781
65°	6498
70°	6235
75°	5987
80°	5745
85°	5634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	5.4
10°-20°	821.9	14.4
20°-30°	1240.5	21.7
30°-40°	1479.3	25.9
40°-50°	765.0	13.4
50°-60°	461.4	8.1
60°-70°	353.5	6.2
70°-80°	212.1	3.7
80°-90°	69.6	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°	2372.3	41.5
0°-40°	3851.6	67.4
0°-60°	5078.0	88.9
0°-90°	5713.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3761	
5°	3327	310
15°	2908	822
25°	2693	1241
35°	2396	1479
45°	746	765
55°	515	461
65°	356	354
75°	201	212
85°	64	70
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3761.3
2.5°	3641.9
5°	3327.4
7.5°	3136.4
10°	3038.9
12.5°	2969.2
15°	2907.5
17.5°	2851.8
20°	2798.1
22.5°	2748.3
25°	2692.6
27.5°	2630.9
30°	2555.3
32.5°	2465.7
35°	2396.1
37.5°	2322.4
40°	1986.1
42.5°	1323.4
45°	746.3
47.5°	664.7
50°	597.0
52.5°	549.3
55°	515.4
57.5°	479.6
60°	439.8
62.5°	398.0
65°	356.2
67.5°	316.4
70°	276.6
72.5°	236.8
75°	201.0
77.5°	163.2
80°	129.4
82.5°	95.5
85°	63.7
87.5°	31.8
90°	0.0

(END OF REPORT)