

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: P600745

Luminaire Tested: PRLX-215-90-40K-LL8-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600745
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-LL8-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: 6023.5 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

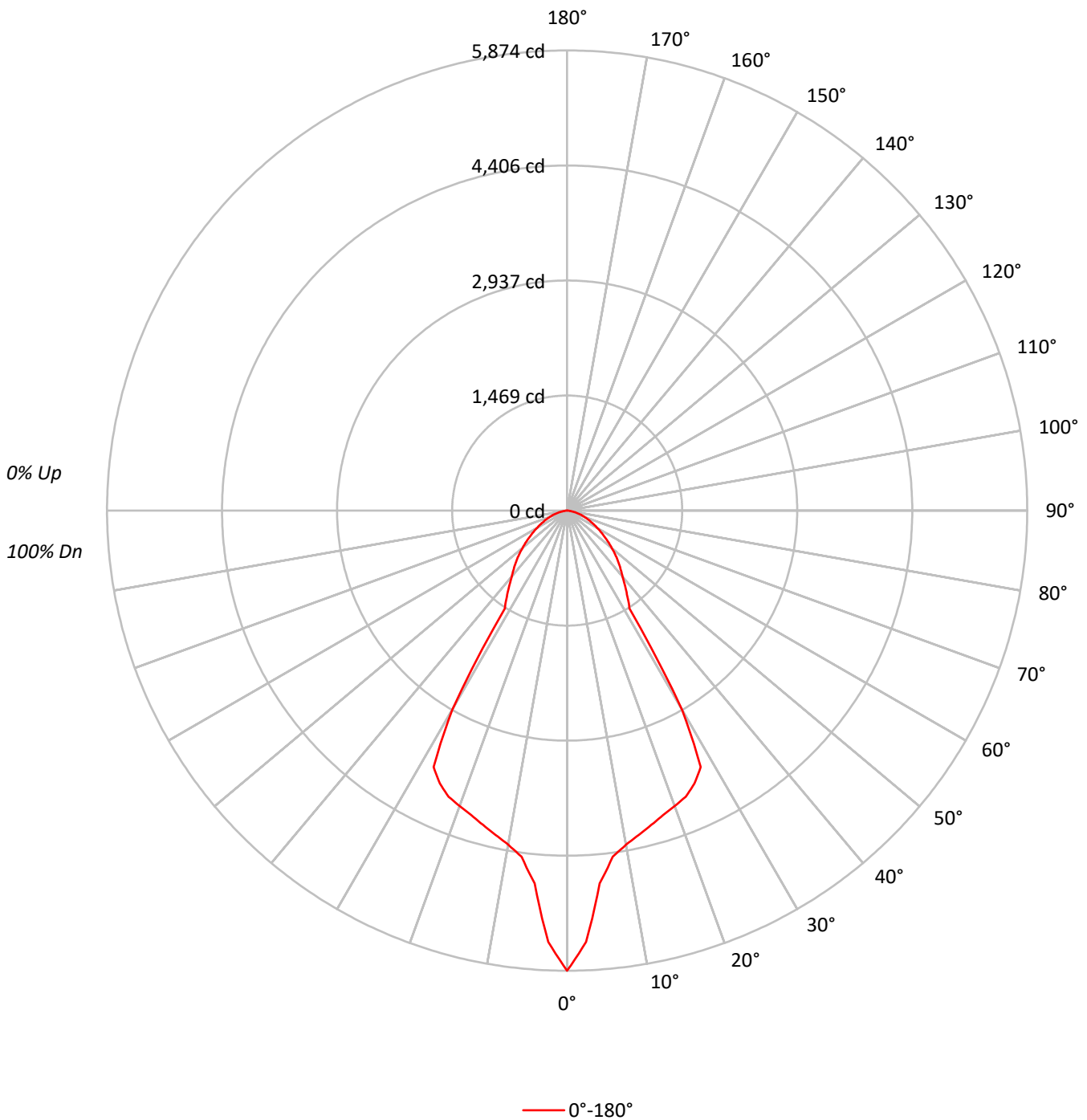
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	80501
5°	65714
10°	60250
15°	58938
20°	58529
25°	58143
30°	46496
35°	22449
40°	19673
45°	17864
50°	15859
55°	13935
60°	12192
65°	10659
70°	9308
75°	7853
80°	5462
85°	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	7.4
10°-20°	1174.4	19.5
20°-30°	1720.3	28.6
30°-40°	935.0	15.5
40°-50°	709.6	11.8
50°-60°	524.8	8.7
60°-70°	329.8	5.5
70°-80°	157.5	2.6
80°-90°	24.8	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°	3341.9	55.5
0°-40°	4276.9	71.0
0°-60°	5511.3	91.5
0°-90°	6023.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6023.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5874	
5°	4777	447
15°	4154	1174
25°	3845	1720
35°	1342	935
45°	922	710
55°	583	525
65°	329	330
75°	148	158
85°	12	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5873.8
2.5°	5510.5
5°	4776.6
7.5°	4455.4
10°	4329.4
12.5°	4237.9
15°	4153.9
17.5°	4074.8
20°	4013.1
22.5°	3953.7
25°	3845.0
27.5°	3691.8
30°	2938.1
32.5°	1482.7
35°	1341.8
37.5°	1213.3
40°	1099.6
42.5°	1008.2
45°	921.7
47.5°	832.8
50°	743.8
52.5°	662.3
55°	583.2
57.5°	511.5
60°	444.8
62.5°	385.5
65°	328.7
67.5°	281.7
70°	232.3
72.5°	190.3
75°	148.3
77.5°	108.7
80°	69.2
82.5°	39.5
85°	12.4
87.5°	4.9
90°	0.0

(END OF REPORT)