

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: P600665

Luminaire Tested: PRLX-215-90-27K-LL5-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600665
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-215-90-27K-LL5-UNV-STD-X-X-WHHR-FL-X
Description: Pentalux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

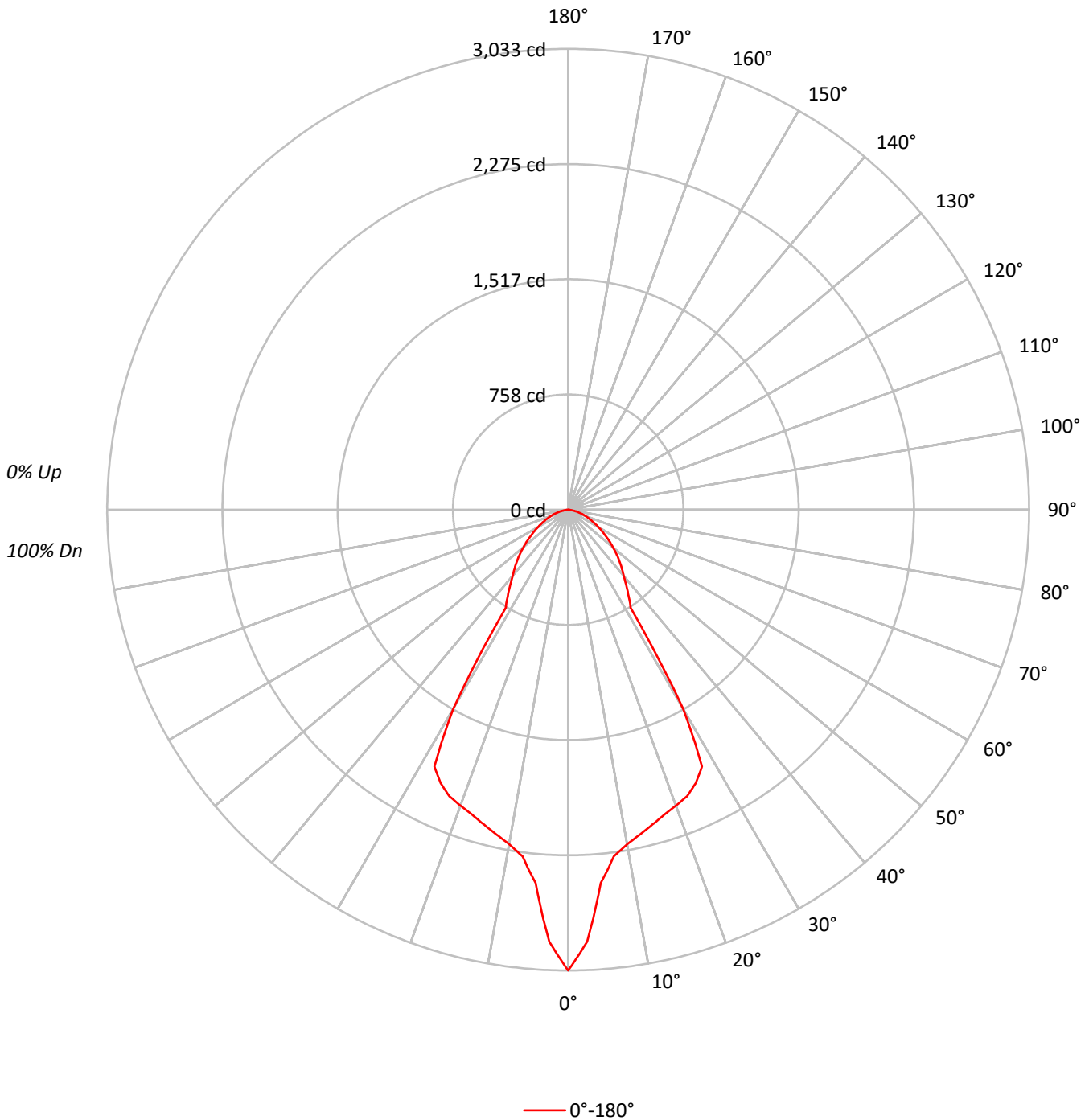
Lumens per Lamp: N/A
Luminaire Lumens: 3110.2 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90				90
2	104	98	93	89	102	96	92	87	93	89	86	90	87	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41566
5°	33931
10°	31109
15°	30432
20°	30221
25°	30023
30°	24008
35°	11591
40°	10158
45°	9224
50°	8189
55°	7194
60°	6296
65°	5503
70°	4804
75°	4056
80°	2818
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	7.4
10°-20°	606.4	19.5
20°-30°	888.3	28.6
30°-40°	482.8	15.5
40°-50°	366.4	11.8
50°-60°	271.0	8.7
60°-70°	170.3	5.5
70°-80°	81.3	2.6
80°-90°	12.8	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°	1725.6	55.5
0°-40°	2208.3	71.0
0°-60°	2845.7	91.5
0°-90°	3110.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3033	
5°	2466	231
15°	2145	606
25°	1985	888
35°	693	483
45°	476	366
55°	301	271
65°	170	170
75°	77	81
85°	6	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3032.9
2.5°	2845.3
5°	2466.4
7.5°	2300.5
10°	2235.4
12.5°	2188.2
15°	2144.8
17.5°	2104.0
20°	2072.1
22.5°	2041.5
25°	1985.4
27.5°	1906.2
30°	1517.1
32.5°	765.6
35°	692.8
37.5°	626.5
40°	567.8
42.5°	520.6
45°	475.9
47.5°	430.0
50°	384.1
52.5°	342.0
55°	301.1
57.5°	264.1
60°	229.7
62.5°	199.0
65°	169.7
67.5°	145.5
70°	119.9
72.5°	98.2
75°	76.6
77.5°	56.1
80°	35.7
82.5°	20.4
85°	6.4
87.5°	2.6
90°	0.0

(END OF REPORT)