

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: P600736

Luminaire Tested: PRLX-215-90-40K-LL5-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600736
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-LL5-UNV-STD-X-X-WHHR-BR-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: 3533.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

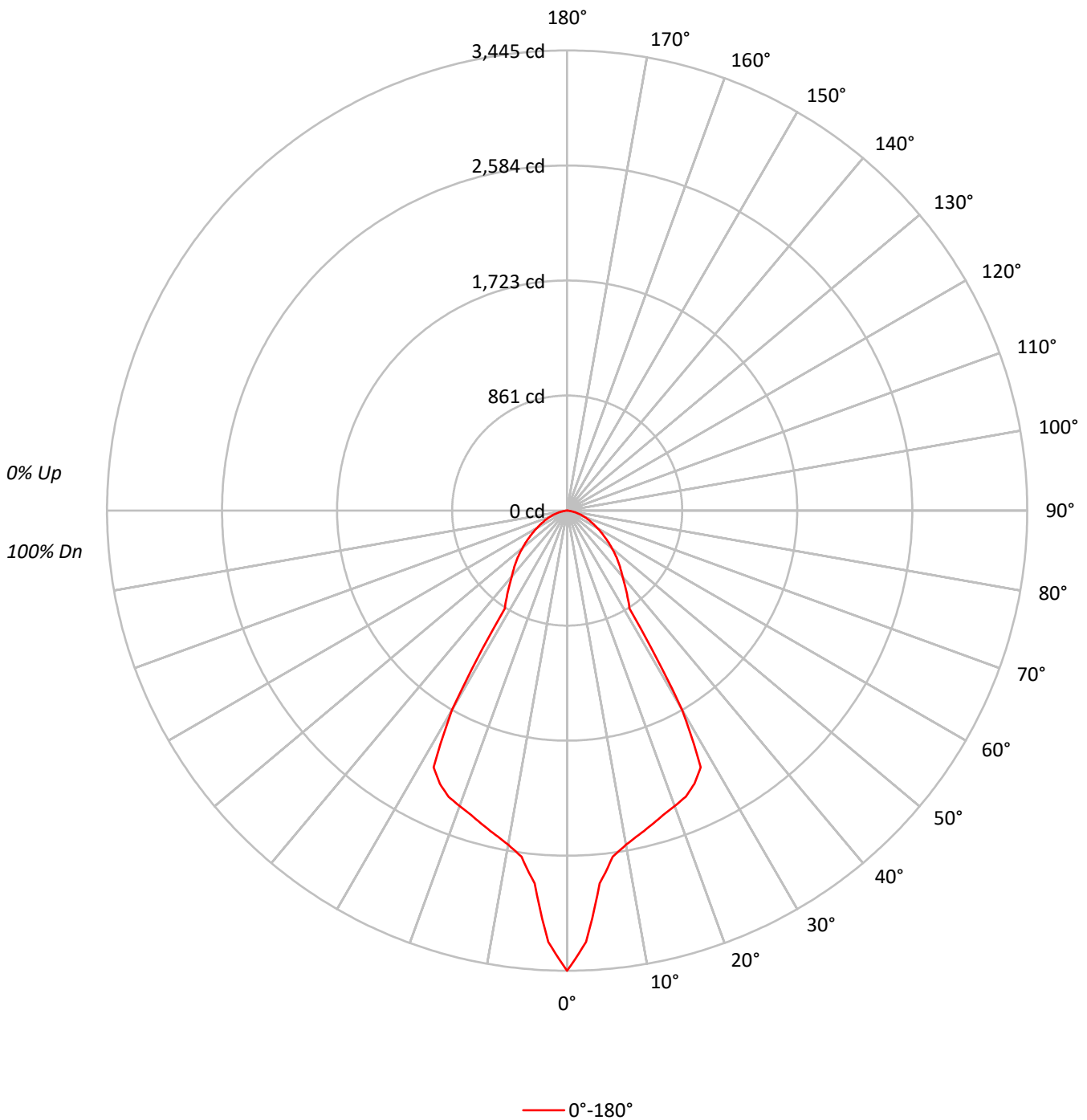
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	47218
5°	38544
10°	35339
15°	34570
20°	34329
25°	34104
30°	27273
35°	13167
40°	11539
45°	10478
50°	9302
55°	8174
60°	7151
65°	6252
70°	5458
75°	4607
80°	3204
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	7.4
10°-20°	688.9	19.5
20°-30°	1009.0	28.6
30°-40°	548.4	15.5
40°-50°	416.2	11.8
50°-60°	307.8	8.7
60°-70°	193.4	5.5
70°-80°	92.4	2.6
80°-90°	14.6	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°	1960.2	55.5
0°-40°	2508.6	71.0
0°-60°	3232.6	91.5
0°-90°	3533.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3445	
5°	2802	262
15°	2436	689
25°	2255	1009
35°	787	548
45°	541	416
55°	342	308
65°	193	193
75°	87	92
85°	7	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3445.3
2.5°	3232.2
5°	2801.7
7.5°	2613.3
10°	2539.4
12.5°	2485.7
15°	2436.5
17.5°	2390.1
20°	2353.8
22.5°	2319.1
25°	2255.3
27.5°	2165.4
30°	1723.4
32.5°	869.6
35°	787.0
37.5°	711.7
40°	645.0
42.5°	591.4
45°	540.6
47.5°	488.5
50°	436.3
52.5°	388.4
55°	342.1
57.5°	300.0
60°	260.9
62.5°	226.1
65°	192.8
67.5°	165.2
70°	136.2
72.5°	111.6
75°	87.0
77.5°	63.8
80°	40.6
82.5°	23.2
85°	7.2
87.5°	2.9
90°	0.0

(END OF REPORT)