

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: P600721

Luminaire Tested: PRLX-215-90-35K-LL8-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600721
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-215-90-35K-LL8-UNV-STD-X-X-WHHR-BR-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: 5807.6 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

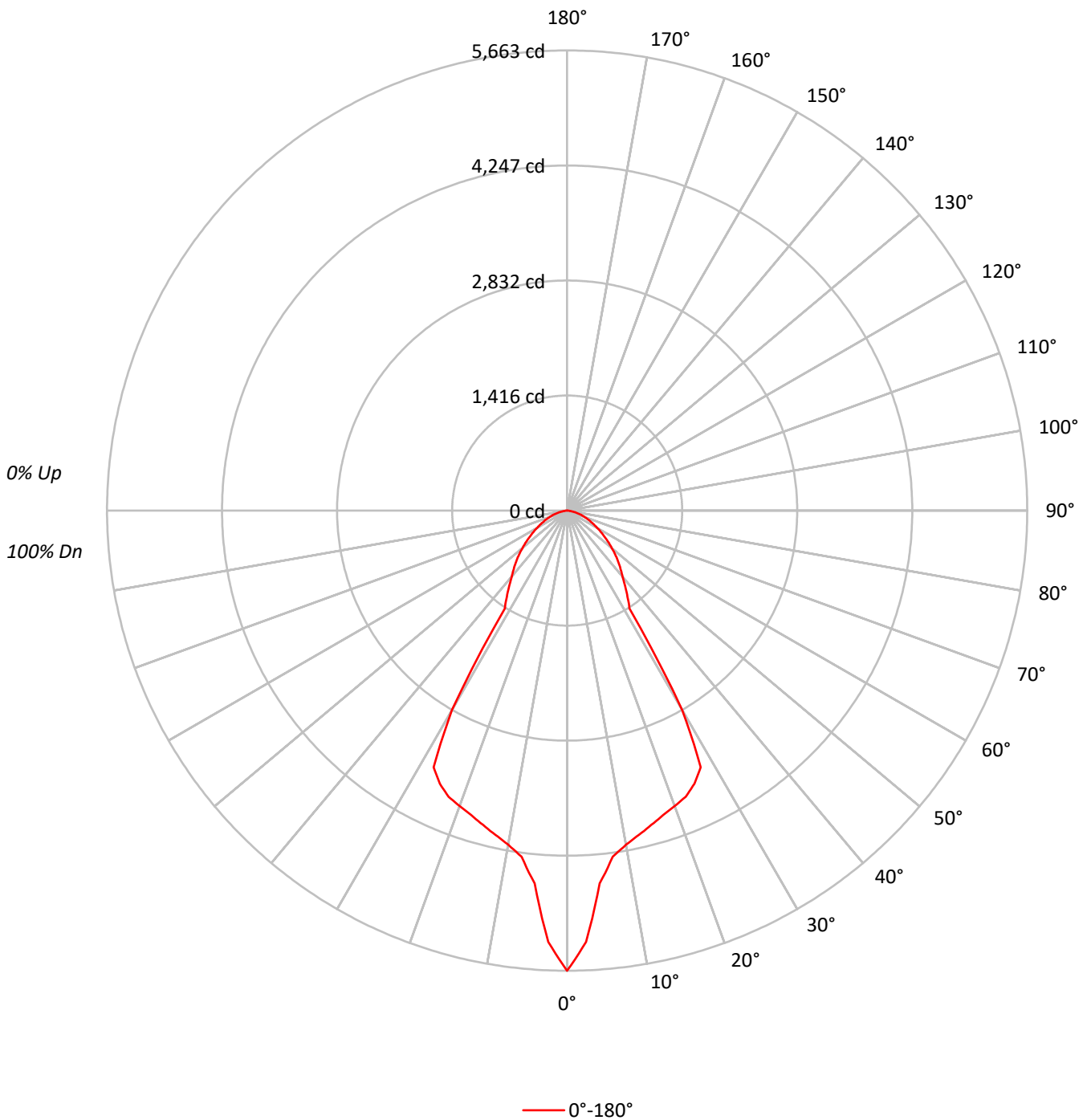
Input Watts (W): 72.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	77616
5°	63358
10°	58090
15°	56825
20°	56431
25°	56060
30°	44830
35°	21645
40°	18968
45°	17225
50°	15289
55°	13436
60°	11756
65°	10277
70°	8976
75°	7572
80°	5264
85°	1871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.2	7.4
10°-20°	1132.4	19.5
20°-30°	1658.6	28.6
30°-40°	901.4	15.5
40°-50°	684.2	11.8
50°-60°	506.0	8.7
60°-70°	318.0	5.5
70°-80°	151.9	2.6
80°-90°	24.0	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°	3222.2	55.5
0°-40°	4123.6	71.0
0°-60°	5313.8	91.5
0°-90°	5807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5807.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5663	
5°	4605	431
15°	4005	1132
25°	3707	1659
35°	1294	901
45°	889	684
55°	562	506
65°	317	318
75°	143	152
85°	12	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5663.3
2.5°	5313.1
5°	4605.4
7.5°	4295.7
10°	4174.2
12.5°	4086.1
15°	4005.0
17.5°	3928.8
20°	3869.2
22.5°	3812.1
25°	3707.2
27.5°	3559.5
30°	2832.8
32.5°	1429.5
35°	1293.7
37.5°	1169.8
40°	1060.2
42.5°	972.1
45°	888.7
47.5°	802.9
50°	717.1
52.5°	638.5
55°	562.3
57.5°	493.2
60°	428.9
62.5°	371.7
65°	316.9
67.5°	271.6
70°	224.0
72.5°	183.5
75°	143.0
77.5°	104.8
80°	66.7
82.5°	38.1
85°	11.9
87.5°	4.8
90°	0.0

(END OF REPORT)