

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: P600581

Luminaire Tested: PRLX-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600581
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-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

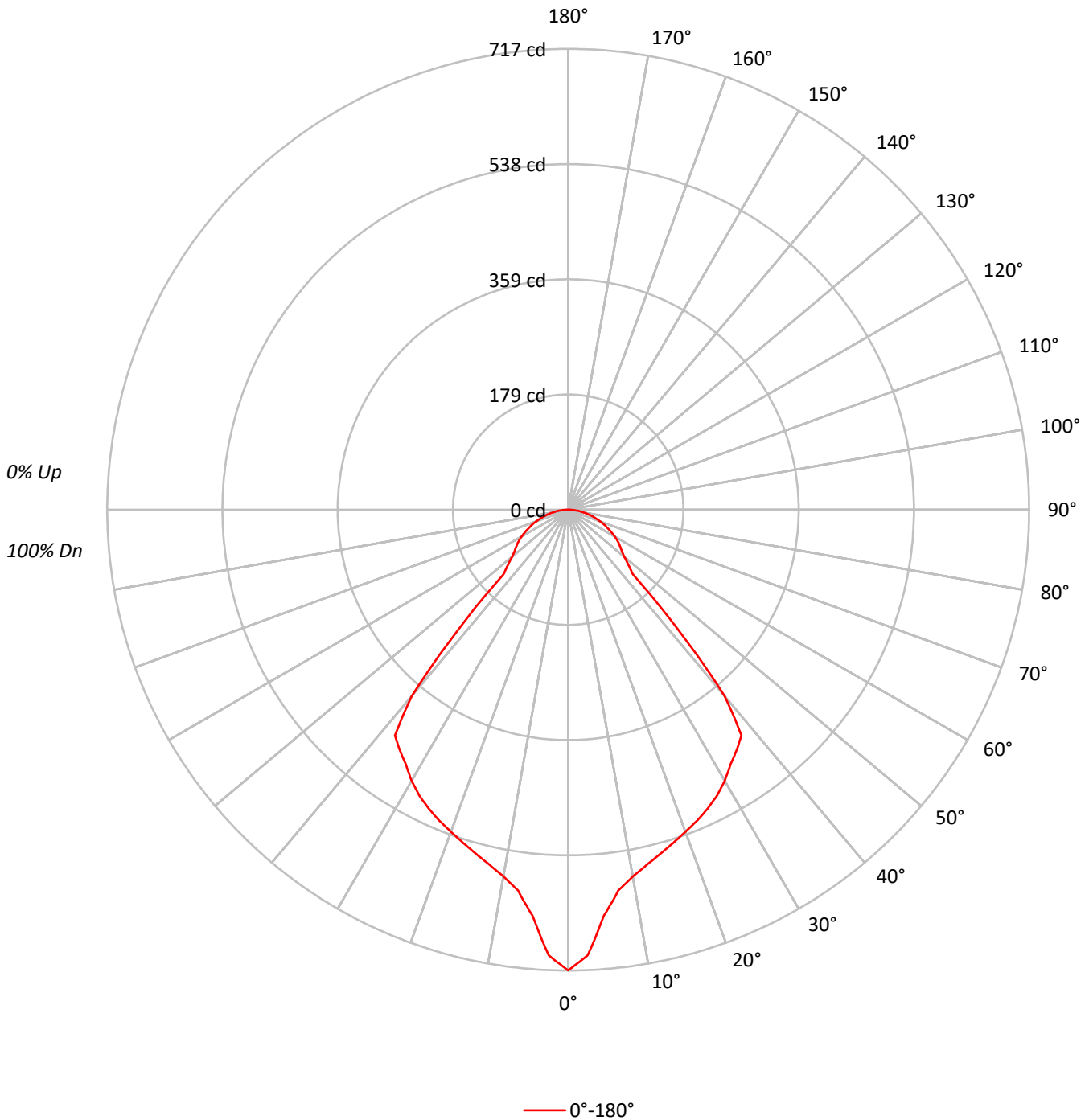
Lumens per Lamp: N/A
Luminaire Lumens: 1088.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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



TEST NUMBER: P600581
CATALOG NUMBER: PRLX-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

Luminous Intensity Polar Plot





TEST NUMBER: P600581

CATALOG NUMBER: PRLX-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5526
5°	4907
10°	4533
15°	4422
20°	4374
25°	4364
30°	4334
35°	4297
40°	3809
45°	1550
50°	1365
55°	1320
60°	1292
65°	1239
70°	1188
75°	1141
80°	1097
85°	1070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1550 cd/sqm



TEST NUMBER: P600581

CATALOG NUMBER: PRLX-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	5.4
10°-20°	156.6	14.4
20°-30°	236.4	21.7
30°-40°	281.9	25.9
40°-50°	145.8	13.4
50°-60°	87.9	8.1
60°-70°	67.4	6.2
70°-80°	40.4	3.7
80°-90°	13.3	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°	452.1	41.5
0°-40°	734.0	67.4
0°-60°	967.7	88.9
0°-90°	1088.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	717	
5°	634	59
15°	554	157
25°	513	236
35°	457	282
45°	142	146
55°	98	88
65°	68	67
75°	38	40
85°	12	13
90°	0	



TEST NUMBER: P600581

CATALOG NUMBER: PRLX-225-90-30K-LL1-UNV-STD-X-X-WHHR-FL-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	716.8
2.5°	694.0
5°	634.1
7.5°	597.7
10°	579.1
12.5°	565.8
15°	554.1
17.5°	543.4
20°	533.2
22.5°	523.7
25°	513.1
27.5°	501.3
30°	486.9
32.5°	469.9
35°	456.6
37.5°	442.6
40°	378.5
42.5°	252.2
45°	142.2
47.5°	126.7
50°	113.8
52.5°	104.7
55°	98.2
57.5°	91.4
60°	83.8
62.5°	75.8
65°	67.9
67.5°	60.3
70°	52.7
72.5°	45.1
75°	38.3
77.5°	31.1
80°	24.7
82.5°	18.2
85°	12.1
87.5°	6.1
90°	0.0

(END OF REPORT)