

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: P979691

Luminaire Tested: PRLX-241-930-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

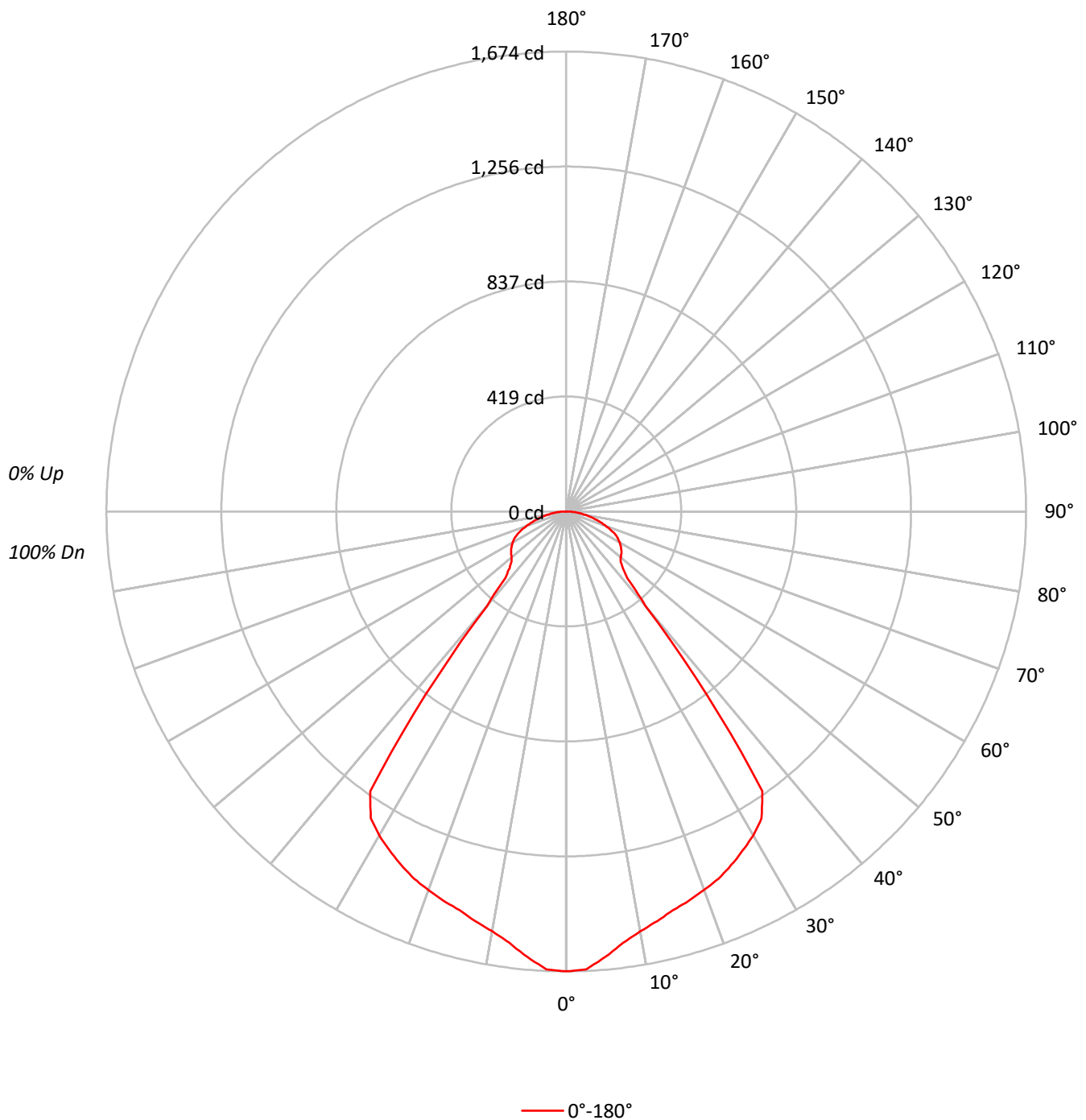
Lumens per Lamp: N/A
Luminaire Lumens: 2700.3 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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

TEST NUMBER: P979691

CATALOG NUMBER: PRLX-241-930-31L-C-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P979691

CATALOG NUMBER: PRLX-241-930-31L-C-U-S-WHTE-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12902
5°	12599
10°	12146
15°	11989
20°	12030
25°	12086
30°	12123
35°	11705
40°	4520
45°	3176
50°	3111
55°	3292
60°	3463
65°	3566
70°	3446
75°	3259
80°	3050
85°	2822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 3566 cd/sqm

TEST NUMBER: P979691

CATALOG NUMBER: PRLX-241-930-31L-C-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	5.7
10°-20°	425.7	15.8
20°-30°	655.1	24.3
30°-40°	666.4	24.7
40°-50°	238.7	8.8
50°-60°	218.3	8.1
60°-70°	190.7	7.1
70°-80°	116.0	4.3
80°-90°	36.4	1.3
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°	1233.7	45.7
0°-40°	1900.0	70.4
0°-60°	2357.1	87.3
0°-90°	2700.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1674	
5°	1628	153
15°	1502	426
25°	1421	655
35°	1244	666
45°	291	239
55°	245	218
65°	196	191
75°	109	116
85°	32	36
90°	0	

TEST NUMBER: P979691

CATALOG NUMBER: PRLX-241-930-31L-C-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1673.6
2.5°	1667.7
5°	1628.1
7.5°	1583.5
10°	1551.6
12.5°	1527.4
15°	1502.2
17.5°	1485.8
20°	1466.4
22.5°	1447.1
25°	1420.9
27.5°	1391.9
30°	1361.9
32.5°	1324.1
35°	1243.8
37.5°	842.1
40°	449.1
42.5°	327.2
45°	291.3
47.5°	269.1
50°	259.4
52.5°	252.6
55°	244.9
57.5°	235.2
60°	224.6
62.5°	212.0
65°	195.5
67.5°	174.2
70°	152.9
72.5°	130.7
75°	109.4
77.5°	89.0
80°	68.7
82.5°	50.3
85°	31.9
87.5°	17.4
90°	0.0

TEST NUMBER: P979691

CATALOG NUMBER: PRLX-241-930-31L-C-U-S-WHTE-X

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.60	15.92	14.96	16.23	16.55	14.60	15.92	14.96	16.23	16.55
	3H	16.75	17.94	17.13	18.27	18.63	16.75	17.94	17.13	18.27	18.63
	4H	17.54	18.65	17.94	19.00	19.38	17.54	18.65	17.94	19.00	19.38
	6H	18.12	19.15	18.54	19.52	19.91	18.12	19.15	18.54	19.52	19.91
	8H	18.33	19.30	18.76	19.69	20.10	18.33	19.30	18.76	19.69	20.10
	12H	18.47	19.40	18.90	19.78	20.21	18.47	19.40	18.90	19.78	20.21
4H	2H	15.34	16.46	15.75	16.81	17.19	15.34	16.46	15.75	16.81	17.19
	3H	17.66	18.59	18.07	18.99	19.39	17.66	18.59	18.07	18.99	19.39
	4H	18.56	19.39	18.99	19.81	20.25	18.56	19.39	18.99	19.81	20.25
	6H	19.27	20.00	19.73	20.44	20.91	19.27	20.00	19.73	20.44	20.91
	8H	19.52	20.20	19.99	20.65	21.12	19.52	20.20	19.99	20.65	21.12
	12H	19.71	20.31	20.19	20.79	21.26	19.71	20.31	20.19	20.79	21.26
8H	4H	18.88	19.56	19.35	20.00	20.47	18.88	19.56	19.35	20.00	20.47
	6H	19.73	20.29	20.24	20.78	21.26	19.73	20.29	20.24	20.78	21.26
	8H	20.07	20.57	20.59	21.08	21.57	20.07	20.57	20.59	21.08	21.57
	12H	20.35	20.79	20.87	21.28	21.85	20.35	20.79	20.87	21.28	21.85
12H	4H	18.91	19.51	19.39	19.99	20.46	18.91	19.51	19.39	19.99	20.46
	6H	19.80	20.29	20.32	20.81	21.30	19.80	20.29	20.32	20.81	21.30
	8H	20.20	20.63	20.72	21.13	21.70	20.20	20.63	20.72	21.13	21.70