

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P979671

Luminaire Tested: PRLX-241-930-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979671
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-241-930-18L-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

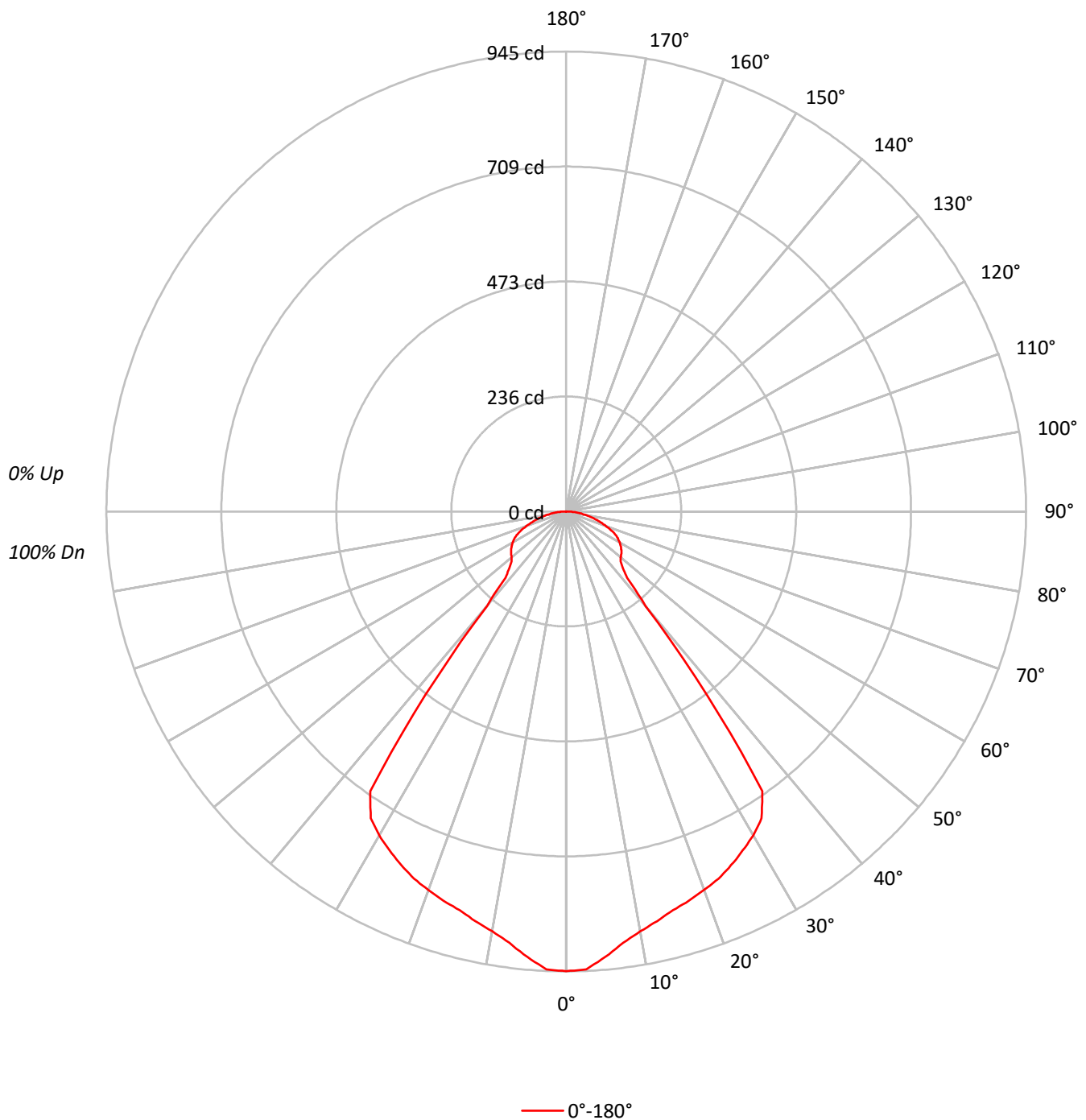
Lumens per Lamp: N/A
Luminaire Lumens: 1524.4 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		68
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		61
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		55
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		50
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		45
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		42
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		38
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7283
5°	7112
10°	6857
15°	6768
20°	6791
25°	6823
30°	6844
35°	6608
40°	2551
45°	1793
50°	1756
55°	1857
60°	1955
65°	2014
70°	1945
75°	1838
80°	1723
85°	1592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 2014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	5.7
10°-20°	240.3	15.8
20°-30°	369.8	24.3
30°-40°	376.2	24.7
40°-50°	134.8	8.8
50°-60°	123.2	8.1
60°-70°	107.7	7.1
70°-80°	65.5	4.3
80°-90°	20.6	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°	696.4	45.7
0°-40°	1072.6	70.4
0°-60°	1330.6	87.3
0°-90°	1524.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	945	
5°	919	86
15°	848	240
25°	802	370
35°	702	376
45°	164	135
55°	138	123
65°	110	108
75°	62	65
85°	18	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	944.7
2.5°	941.5
5°	919.1
7.5°	893.9
10°	875.9
12.5°	862.2
15°	848.0
17.5°	838.7
20°	827.8
22.5°	816.9
25°	802.1
27.5°	785.7
30°	768.8
32.5°	747.5
35°	702.1
37.5°	475.4
40°	253.5
42.5°	184.7
45°	164.5
47.5°	151.9
50°	146.4
52.5°	142.6
55°	138.2
57.5°	132.8
60°	126.8
62.5°	119.7
65°	110.4
67.5°	98.4
70°	86.3
72.5°	73.8
75°	61.7
77.5°	50.3
80°	38.8
82.5°	28.4
85°	18.0
87.5°	9.8
90°	0.0

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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	12.61	13.93	12.98	14.25	14.56	12.61	13.93	12.98	14.25	14.56
	3H	14.77	15.96	15.15	16.29	16.65	14.77	15.96	15.15	16.29	16.65
	4H	15.55	16.66	15.95	17.01	17.39	15.55	16.66	15.95	17.01	17.39
	6H	16.14	17.16	16.55	17.53	17.93	16.14	17.16	16.55	17.53	17.93
	8H	16.34	17.31	16.77	17.71	18.11	16.34	17.31	16.77	17.71	18.11
	12H	16.48	17.41	16.91	17.79	18.23	16.48	17.41	16.91	17.79	18.23
4H	2H	13.36	14.47	13.76	14.82	15.20	13.36	14.47	13.76	14.82	15.20
	3H	15.68	16.60	16.09	17.01	17.41	15.68	16.60	16.09	17.01	17.41
	4H	16.57	17.41	17.01	17.83	18.27	16.57	17.41	17.01	17.83	18.27
	6H	17.29	18.01	17.75	18.46	18.92	17.29	18.01	17.75	18.46	18.92
	8H	17.54	18.21	18.00	18.66	19.13	17.54	18.21	18.00	18.66	19.13
	12H	17.72	18.32	18.21	18.80	19.28	17.72	18.32	18.21	18.80	19.28
8H	4H	16.89	17.57	17.36	18.02	18.49	16.89	17.57	17.36	18.02	18.49
	6H	17.75	18.30	18.25	18.80	19.28	17.75	18.30	18.25	18.80	19.28
	8H	18.09	18.58	18.61	19.10	19.59	18.09	18.58	18.61	19.10	19.59
	12H	18.37	18.80	18.88	19.30	19.87	18.37	18.80	18.88	19.30	19.87
12H	4H	16.92	17.52	17.41	18.00	18.48	16.92	17.52	17.41	18.00	18.48
	6H	17.81	18.31	18.33	18.82	19.31	17.81	18.31	18.33	18.82	19.31
	8H	18.22	18.65	18.73	19.14	19.71	18.22	18.65	18.73	19.14	19.71