

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: P979831

Luminaire Tested: PRLX-241-940-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979831
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-241-940-18L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

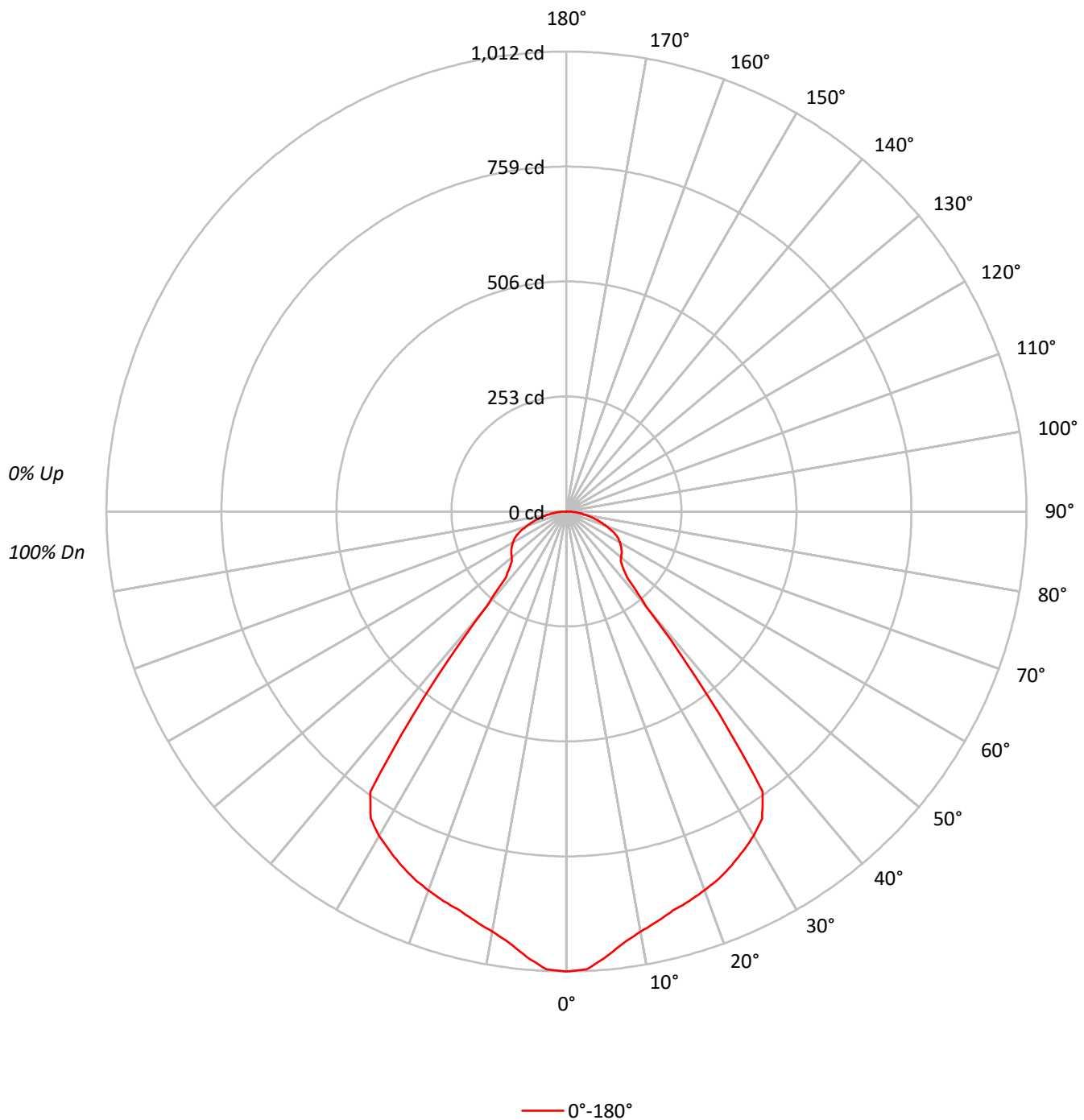
Lumens per Lamp: N/A
Luminaire Lumens: 1633.4 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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°	7804
5°	7621
10°	7347
15°	7252
20°	7277
25°	7311
30°	7333
35°	7081
40°	2734
45°	1921
50°	1882
55°	1991
60°	2094
65°	2158
70°	2085
75°	1972
80°	1847
85°	1707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 2158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	5.7
10°-20°	257.5	15.8
20°-30°	396.3	24.3
30°-40°	403.1	24.7
40°-50°	144.4	8.8
50°-60°	132.1	8.1
60°-70°	115.4	7.1
70°-80°	70.2	4.3
80°-90°	22.0	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°	746.2	45.7
0°-40°	1149.3	70.4
0°-60°	1425.8	87.3
0°-90°	1633.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1633.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	985	92
15°	909	258
25°	860	396
35°	752	403
45°	176	144
55°	148	132
65°	118	115
75°	66	70
85°	19	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1012.3
2.5°	1008.8
5°	984.8
7.5°	957.9
10°	938.6
12.5°	923.9
15°	908.7
17.5°	898.7
20°	887.0
22.5°	875.3
25°	859.5
27.5°	841.9
30°	823.8
32.5°	801.0
35°	752.4
37.5°	509.4
40°	271.7
42.5°	197.9
45°	176.2
47.5°	162.8
50°	156.9
52.5°	152.8
55°	148.1
57.5°	142.3
60°	135.8
62.5°	128.2
65°	118.3
67.5°	105.4
70°	92.5
72.5°	79.0
75°	66.2
77.5°	53.9
80°	41.6
82.5°	30.4
85°	19.3
87.5°	10.5
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	12.85	14.17	13.22	14.49	14.80	12.85	14.17	13.22	14.49	14.80
	3H	15.01	16.20	15.39	16.52	16.89	15.01	16.20	15.39	16.52	16.89
	4H	15.79	16.90	16.19	17.25	17.63	15.79	16.90	16.19	17.25	17.63
	6H	16.38	17.41	16.79	17.78	18.17	16.38	17.41	16.79	17.78	18.17
	8H	16.58	17.56	17.01	17.95	18.35	16.58	17.56	17.01	17.95	18.35
	12H	16.72	17.65	17.15	18.04	18.47	16.72	17.65	17.15	18.04	18.47
4H	2H	13.60	14.71	14.00	15.06	15.44	13.60	14.71	14.00	15.06	15.44
	3H	15.91	16.84	16.33	17.25	17.65	15.91	16.84	16.33	17.25	17.65
	4H	16.81	17.65	17.25	18.07	18.51	16.81	17.65	17.25	18.07	18.51
	6H	17.53	18.25	17.99	18.70	19.16	17.53	18.25	17.99	18.70	19.16
	8H	17.78	18.45	18.24	18.90	19.37	17.78	18.45	18.24	18.90	19.37
	12H	17.96	18.56	18.45	19.05	19.52	17.96	18.56	18.45	19.05	19.52
8H	4H	17.13	17.81	17.60	18.26	18.73	17.13	17.81	17.60	18.26	18.73
	6H	17.99	18.54	18.49	19.04	19.52	17.99	18.54	18.49	19.04	19.52
	8H	18.33	18.82	18.85	19.34	19.83	18.33	18.82	18.85	19.34	19.83
	12H	18.61	19.04	19.12	19.54	20.11	18.61	19.04	19.12	19.54	20.11
12H	4H	17.16	17.76	17.65	18.24	18.72	17.16	17.76	17.65	18.24	18.72
	6H	18.05	18.55	18.57	19.06	19.55	18.05	18.55	18.57	19.06	19.55
	8H	18.46	18.89	18.97	19.38	19.95	18.46	18.89	18.97	19.38	19.95