

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: P979273

Luminaire Tested: PRLX-240-927-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

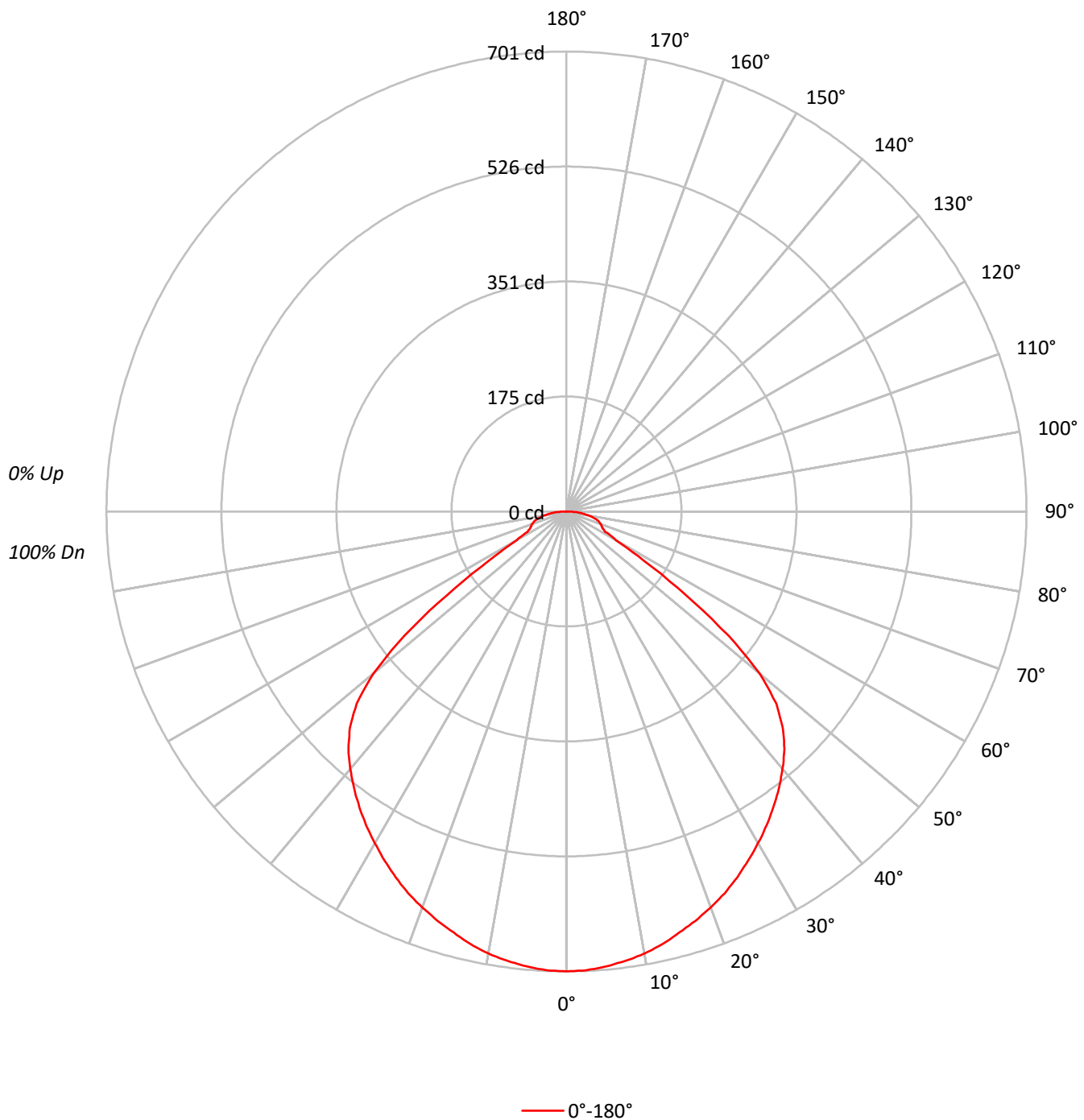
Lumens per Lamp: N/A
Luminaire Lumens: 1568.7 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7058
5°	7038
10°	6999
15°	6926
20°	6881
25°	6837
30°	6790
35°	6761
40°	6734
45°	6643
50°	6015
55°	3909
60°	1764
65°	1449
70°	1640
75°	1825
80°	1914
85°	1964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	4.2
10°-20°	187.7	12.0
20°-30°	283.7	18.1
30°-40°	344.2	21.9
40°-50°	354.9	22.6
50°-60°	201.3	12.8
60°-70°	63.6	4.1
70°-80°	48.6	3.1
80°-90°	18.5	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°	537.4	34.3
0°-40°	881.7	56.2
0°-60°	1437.9	91.7
0°-90°	1568.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	701	
5°	696	66
15°	664	188
25°	615	284
35°	550	344
45°	466	355
55°	223	201
65°	61	64
75°	47	49
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	701.0
2.5°	699.9
5°	696.3
7.5°	690.7
10°	684.5
12.5°	675.7
15°	664.4
17.5°	654.1
20°	642.2
22.5°	629.8
25°	615.4
27.5°	599.9
30°	584.0
32.5°	567.5
35°	550.0
37.5°	531.9
40°	512.3
42.5°	491.7
45°	466.5
47.5°	433.5
50°	384.0
52.5°	311.3
55°	222.7
57.5°	139.7
60°	87.6
62.5°	66.5
65°	60.8
67.5°	58.2
70°	55.7
72.5°	52.1
75°	46.9
77.5°	40.7
80°	33.0
82.5°	25.3
85°	17.0
87.5°	9.3
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	13.43	14.90	13.79	15.21	15.53	13.43	14.90	13.79	15.21	15.53
	3H	14.32	15.63	14.70	15.95	16.32	14.32	15.63	14.70	15.95	16.32
	4H	14.93	16.15	15.33	16.50	16.88	14.93	16.15	15.33	16.50	16.88
	6H	15.53	16.65	15.94	17.02	17.41	15.53	16.65	15.94	17.02	17.41
	8H	15.76	16.83	16.19	17.22	17.62	15.76	16.83	16.19	17.22	17.62
	12H	15.95	16.97	16.38	17.35	17.78	15.95	16.97	16.38	17.35	17.78
4H	2H	13.55	14.77	13.95	15.12	15.50	13.55	14.77	13.95	15.12	15.50
	3H	14.79	15.79	15.21	16.19	16.60	14.79	15.79	15.21	16.19	16.60
	4H	15.62	16.51	16.05	16.93	17.37	15.62	16.51	16.05	16.93	17.37
	6H	16.42	17.20	16.88	17.64	18.11	16.42	17.20	16.88	17.64	18.11
	8H	16.74	17.47	17.21	17.92	18.38	16.74	17.47	17.21	17.92	18.38
	12H	17.00	17.65	17.49	18.13	18.61	17.00	17.65	17.49	18.13	18.61
8H	4H	15.93	16.66	16.40	17.10	17.57	15.93	16.66	16.40	17.10	17.57
	6H	16.90	17.51	17.40	18.00	18.48	16.90	17.51	17.40	18.00	18.48
	8H	17.32	17.87	17.84	18.38	18.87	17.32	17.87	17.84	18.38	18.87
	12H	17.69	18.18	18.20	18.68	19.24	17.69	18.18	18.20	18.68	19.24
12H	4H	15.97	16.62	16.46	17.10	17.58	15.97	16.62	16.46	17.10	17.58
	6H	16.98	17.53	17.50	18.04	18.53	16.98	17.53	17.50	18.04	18.53
	8H	17.47	17.97	17.99	18.46	19.03	17.47	17.97	17.99	18.46	19.03