

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: P979833

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

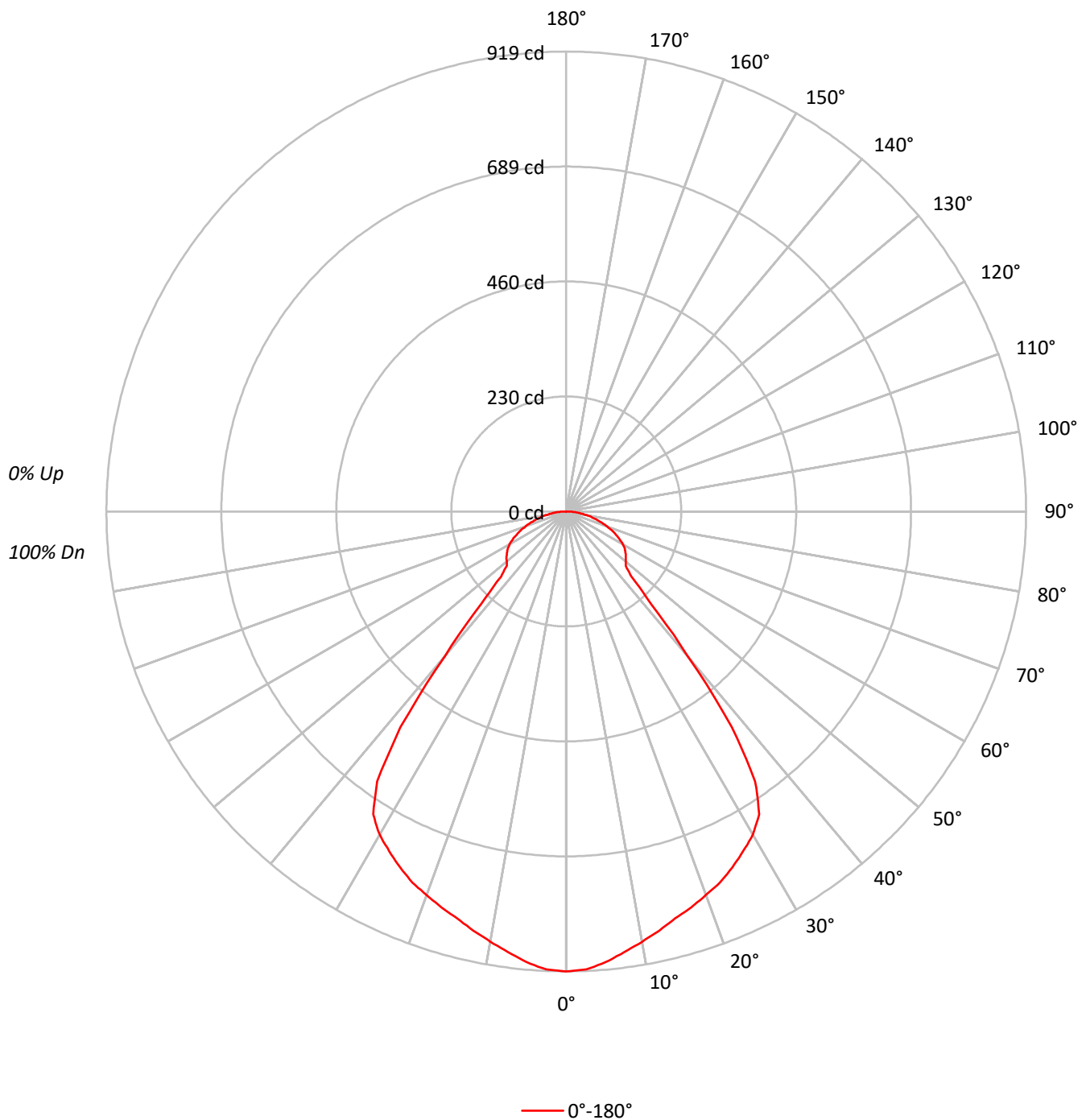
Lumens per Lamp: N/A
Luminaire Lumens: 1559.1 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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		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	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7086
5°	6996
10°	6834
15°	6719
20°	6691
25°	6679
30°	6640
35°	6193
40°	3812
45°	2004
50°	1861
55°	1943
60°	2014
65°	1997
70°	1941
75°	1850
80°	1740
85°	1610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 2014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	5.5
10°-20°	238.3	15.3
20°-30°	361.7	23.2
30°-40°	385.4	24.7
40°-50°	164.7	10.6
50°-60°	129.2	8.3
60°-70°	108.0	6.9
70°-80°	65.8	4.2
80°-90°	20.8	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°	685.3	44.0
0°-40°	1070.7	68.7
0°-60°	1364.5	87.5
0°-90°	1559.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	919	
5°	904	85
15°	842	238
25°	785	362
35°	658	385
45°	184	165
55°	145	129
65°	110	108
75°	62	66
85°	18	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	919.2
2.5°	916.3
5°	904.0
7.5°	888.2
10°	873.0
12.5°	857.8
15°	841.9
17.5°	829.7
20°	815.6
22.5°	802.7
25°	785.2
27.5°	765.8
30°	745.9
32.5°	717.8
35°	658.1
37.5°	543.9
40°	378.8
42.5°	250.0
45°	183.8
47.5°	161.0
50°	155.2
52.5°	150.5
55°	144.6
57.5°	138.8
60°	130.6
62.5°	120.6
65°	109.5
67.5°	97.8
70°	86.1
72.5°	73.8
75°	62.1
77.5°	50.9
80°	39.2
82.5°	28.7
85°	18.2
87.5°	10.0
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	12.81	14.15	13.17	14.46	14.78	12.81	14.15	13.17	14.46	14.78
	3H	14.81	16.02	15.19	16.35	16.71	14.81	16.02	15.19	16.35	16.71
	4H	15.57	16.70	15.97	17.05	17.43	15.57	16.70	15.97	17.05	17.43
	6H	16.16	17.19	16.57	17.56	17.96	16.16	17.19	16.57	17.56	17.96
	8H	16.36	17.34	16.79	17.73	18.14	16.36	17.34	16.79	17.73	18.14
	12H	16.49	17.44	16.93	17.82	18.25	16.49	17.44	16.93	17.82	18.25
4H	2H	13.48	14.61	13.88	14.96	15.34	13.48	14.61	13.88	14.96	15.34
	3H	15.68	16.62	16.09	17.02	17.42	15.68	16.62	16.09	17.02	17.42
	4H	16.56	17.41	17.00	17.83	18.27	16.56	17.41	17.00	17.83	18.27
	6H	17.28	18.01	17.74	18.46	18.92	17.28	18.01	17.74	18.46	18.92
	8H	17.53	18.21	18.00	18.66	19.13	17.53	18.21	18.00	18.66	19.13
	12H	17.72	18.32	18.20	18.80	19.28	17.72	18.32	18.20	18.80	19.28
8H	4H	16.88	17.57	17.35	18.01	18.48	16.88	17.57	17.35	18.01	18.48
	6H	17.74	18.30	18.24	18.79	19.27	17.74	18.30	18.24	18.79	19.27
	8H	18.08	18.58	18.60	19.09	19.58	18.08	18.58	18.60	19.09	19.58
	12H	18.36	18.80	18.87	19.29	19.86	18.36	18.80	18.87	19.29	19.86
12H	4H	16.91	17.52	17.40	18.00	18.47	16.91	17.52	17.40	18.00	18.47
	6H	17.80	18.30	18.32	18.82	19.31	17.80	18.30	18.32	18.82	19.31
	8H	18.21	18.65	18.72	19.14	19.71	18.21	18.65	18.72	19.14	19.71