

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: P979513

Luminaire Tested: PRLX-240-940-18L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979513
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-240-940-18L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

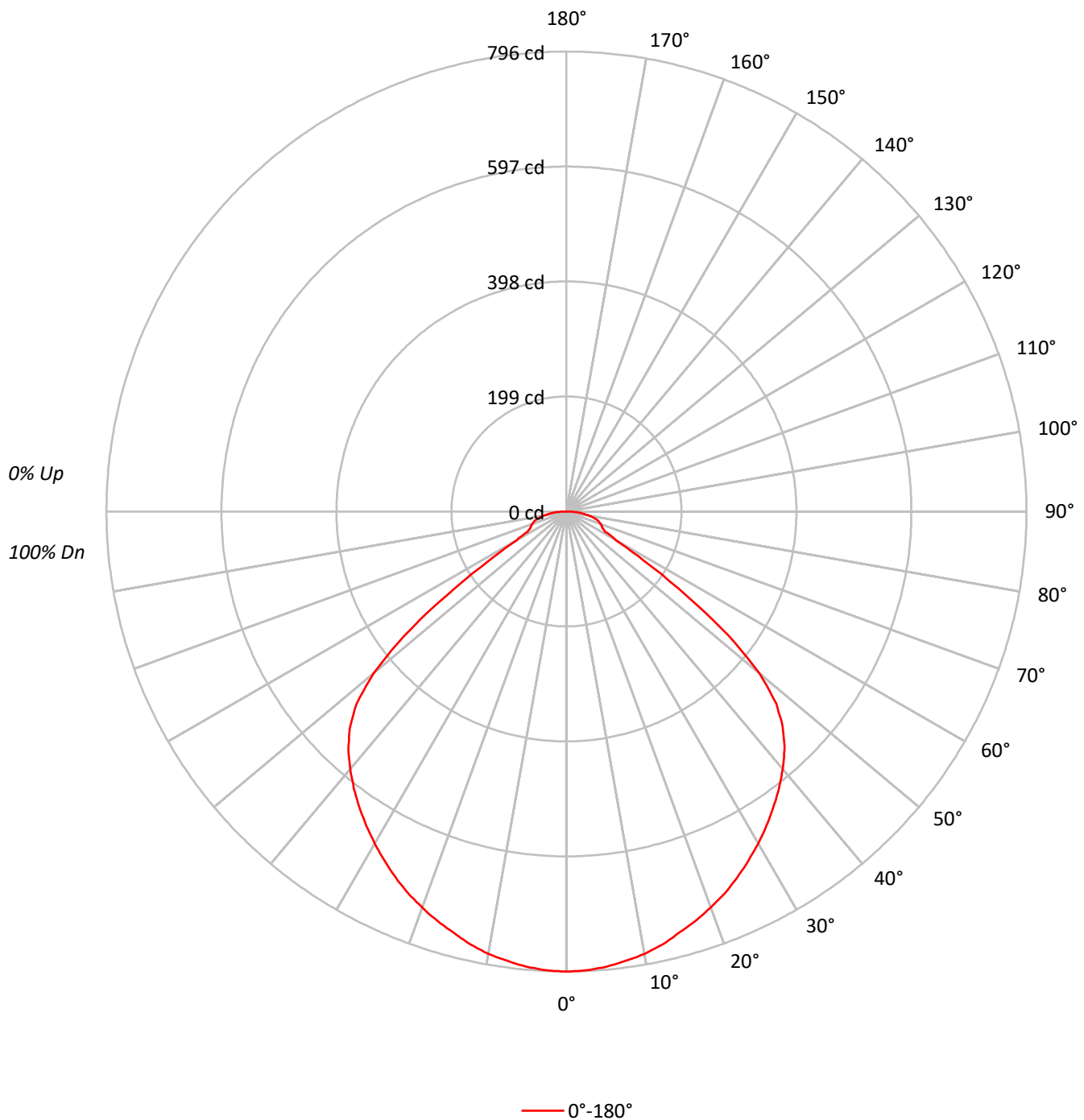
Lumens per Lamp: N/A
Luminaire Lumens: 1781.9 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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°	8018
5°	7995
10°	7949
15°	7867
20°	7817
25°	7767
30°	7713
35°	7679
40°	7650
45°	7546
50°	6833
55°	4440
60°	2004
65°	1646
70°	1861
75°	2074
80°	2174
85°	2230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	4.2
10°-20°	213.2	12.0
20°-30°	322.2	18.1
30°-40°	391.0	21.9
40°-50°	403.2	22.6
50°-60°	228.6	12.8
60°-70°	72.3	4.1
70°-80°	55.2	3.1
80°-90°	21.0	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°	610.5	34.3
0°-40°	1001.6	56.2
0°-60°	1633.4	91.7
0°-90°	1781.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	791	75
15°	755	213
25°	699	322
35°	625	391
45°	530	403
55°	253	229
65°	69	72
75°	53	55
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	796.3
2.5°	795.1
5°	791.0
7.5°	784.6
10°	777.5
12.5°	767.6
15°	754.7
17.5°	743.0
20°	729.5
22.5°	715.5
25°	699.1
27.5°	681.5
30°	663.4
32.5°	644.6
35°	624.7
37.5°	604.2
40°	582.0
42.5°	558.6
45°	529.9
47.5°	492.4
50°	436.2
52.5°	353.6
55°	252.9
57.5°	158.7
60°	99.5
62.5°	75.5
65°	69.1
67.5°	66.2
70°	63.2
72.5°	59.1
75°	53.3
77.5°	46.3
80°	37.5
82.5°	28.7
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	13.87	15.34	14.24	15.65	15.97	13.87	15.34	14.24	15.65	15.97
	3H	14.76	16.07	15.14	16.40	16.76	14.76	16.07	15.14	16.40	16.76
	4H	15.37	16.59	15.77	16.94	17.32	15.37	16.59	15.77	16.94	17.32
	6H	15.97	17.09	16.38	17.46	17.85	15.97	17.09	16.38	17.46	17.85
	8H	16.21	17.28	16.63	17.67	18.07	16.21	17.28	16.63	17.67	18.07
	12H	16.39	17.41	16.82	17.80	18.23	16.39	17.41	16.82	17.80	18.23
4H	2H	14.00	15.22	14.40	15.56	15.94	14.00	15.22	14.40	15.56	15.94
	3H	15.24	16.24	15.65	16.64	17.04	15.24	16.24	15.65	16.64	17.04
	4H	16.06	16.95	16.49	17.37	17.81	16.06	16.95	16.49	17.37	17.81
	6H	16.87	17.65	17.33	18.09	18.55	16.87	17.65	17.33	18.09	18.55
	8H	17.19	17.91	17.65	18.36	18.83	17.19	17.91	17.65	18.36	18.83
	12H	17.45	18.10	17.93	18.58	19.05	17.45	18.10	17.93	18.58	19.05
8H	4H	16.37	17.10	16.84	17.55	18.02	16.37	17.10	16.84	17.55	18.02
	6H	17.34	17.95	17.84	18.44	18.92	17.34	17.95	17.84	18.44	18.92
	8H	17.77	18.32	18.28	18.83	19.32	17.77	18.32	18.28	18.83	19.32
	12H	18.13	18.63	18.64	19.12	19.69	18.13	18.63	18.64	19.12	19.69
12H	4H	16.42	17.07	16.90	17.55	18.02	16.42	17.07	16.90	17.55	18.02
	6H	17.43	17.98	17.94	18.49	18.98	17.43	17.98	17.94	18.49	18.98
	8H	17.92	18.41	18.43	18.91	19.47	17.92	18.41	18.43	18.91	19.47