

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: P979621

Luminaire Tested: PRLX-241-927-43L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979621
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-241-927-43L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

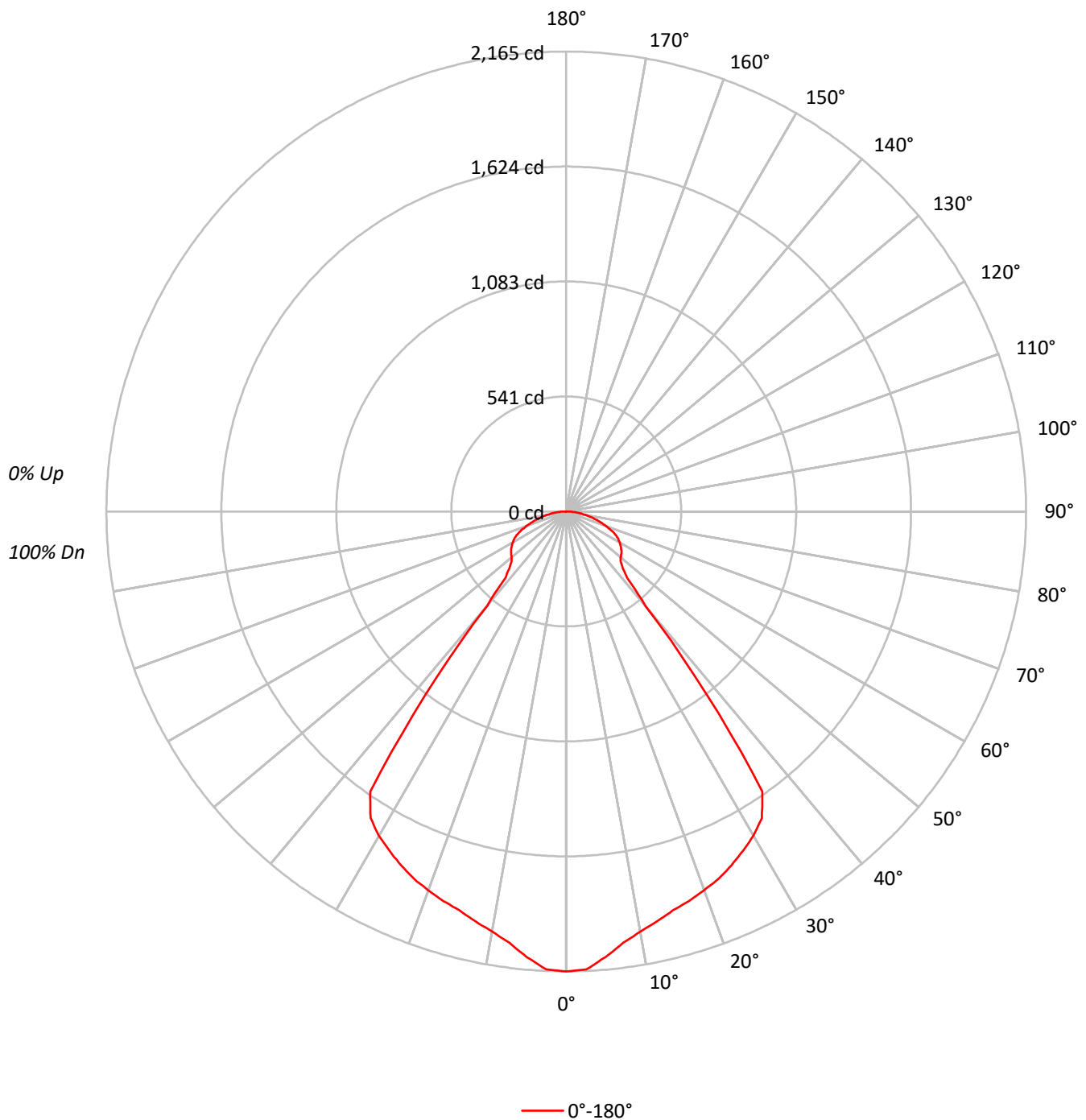
Lumens per Lamp: N/A
Luminaire Lumens: 3493.9 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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°	16693
5°	16301
10°	15716
15°	15513
20°	15566
25°	15638
30°	15686
35°	15145
40°	5848
45°	4110
50°	4025
55°	4259
60°	4481
65°	4615
70°	4461
75°	4215
80°	3947
85°	3653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 4615 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.7	5.7
10°-20°	550.8	15.8
20°-30°	847.7	24.3
30°-40°	862.2	24.7
40°-50°	308.9	8.8
50°-60°	282.5	8.1
60°-70°	246.8	7.1
70°-80°	150.1	4.3
80°-90°	47.2	1.4
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°	1596.2	45.7
0°-40°	2458.5	70.4
0°-60°	3049.8	87.3
0°-90°	3493.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2165	
5°	2106	198
15°	1944	551
25°	1838	848
35°	1609	862
45°	377	309
55°	317	282
65°	253	247
75°	142	150
85°	41	47
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2165.4
2.5°	2157.9
5°	2106.5
7.5°	2048.9
10°	2007.6
12.5°	1976.3
15°	1943.7
17.5°	1922.4
20°	1897.4
22.5°	1872.3
25°	1838.5
27.5°	1801.0
30°	1762.1
32.5°	1713.3
35°	1609.3
37.5°	1089.6
40°	581.1
42.5°	423.3
45°	377.0
47.5°	348.2
50°	335.6
52.5°	326.9
55°	316.9
57.5°	304.3
60°	290.6
62.5°	274.3
65°	253.0
67.5°	225.4
70°	197.9
72.5°	169.1
75°	141.5
77.5°	115.2
80°	88.9
82.5°	65.1
85°	41.3
87.5°	22.5
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	15.49	16.81	15.86	17.13	17.44	15.49	16.81	15.86	17.13	17.44
	3H	17.65	18.84	18.03	19.17	19.53	17.65	18.84	18.03	19.17	19.53
	4H	18.43	19.54	18.83	19.89	20.28	18.43	19.54	18.83	19.89	20.28
	6H	19.02	20.05	19.43	20.41	20.81	19.02	20.05	19.43	20.41	20.81
	8H	19.22	20.20	19.65	20.59	20.99	19.22	20.20	19.65	20.59	20.99
	12H	19.36	20.29	19.79	20.68	21.11	19.36	20.29	19.79	20.68	21.11
4H	2H	16.24	17.35	16.64	17.70	18.08	16.24	17.35	16.64	17.70	18.08
	3H	18.56	19.48	18.97	19.89	20.29	18.56	19.48	18.97	19.89	20.29
	4H	19.45	20.29	19.89	20.71	21.15	19.45	20.29	19.89	20.71	21.15
	6H	20.17	20.89	20.63	21.34	21.80	20.17	20.89	20.63	21.34	21.80
	8H	20.42	21.09	20.88	21.54	22.01	20.42	21.09	20.88	21.54	22.01
	12H	20.60	21.20	21.09	21.69	22.16	20.60	21.20	21.09	21.69	22.16
8H	4H	19.78	20.45	20.24	20.90	21.37	19.78	20.45	20.24	20.90	21.37
	6H	20.63	21.18	21.13	21.68	22.16	20.63	21.18	21.13	21.68	22.16
	8H	20.97	21.46	21.49	21.98	22.47	20.97	21.46	21.49	21.98	22.47
	12H	21.25	21.68	21.76	22.18	22.75	21.25	21.68	21.76	22.18	22.75
12H	4H	19.80	20.40	20.29	20.89	21.36	19.80	20.40	20.29	20.89	21.36
	6H	20.69	21.19	21.21	21.70	22.19	20.69	21.19	21.21	21.70	22.19
	8H	21.10	21.53	21.61	22.02	22.59	21.10	21.53	21.61	22.02	22.59