

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: P980131

Luminaire Tested: PRLX-242-935-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

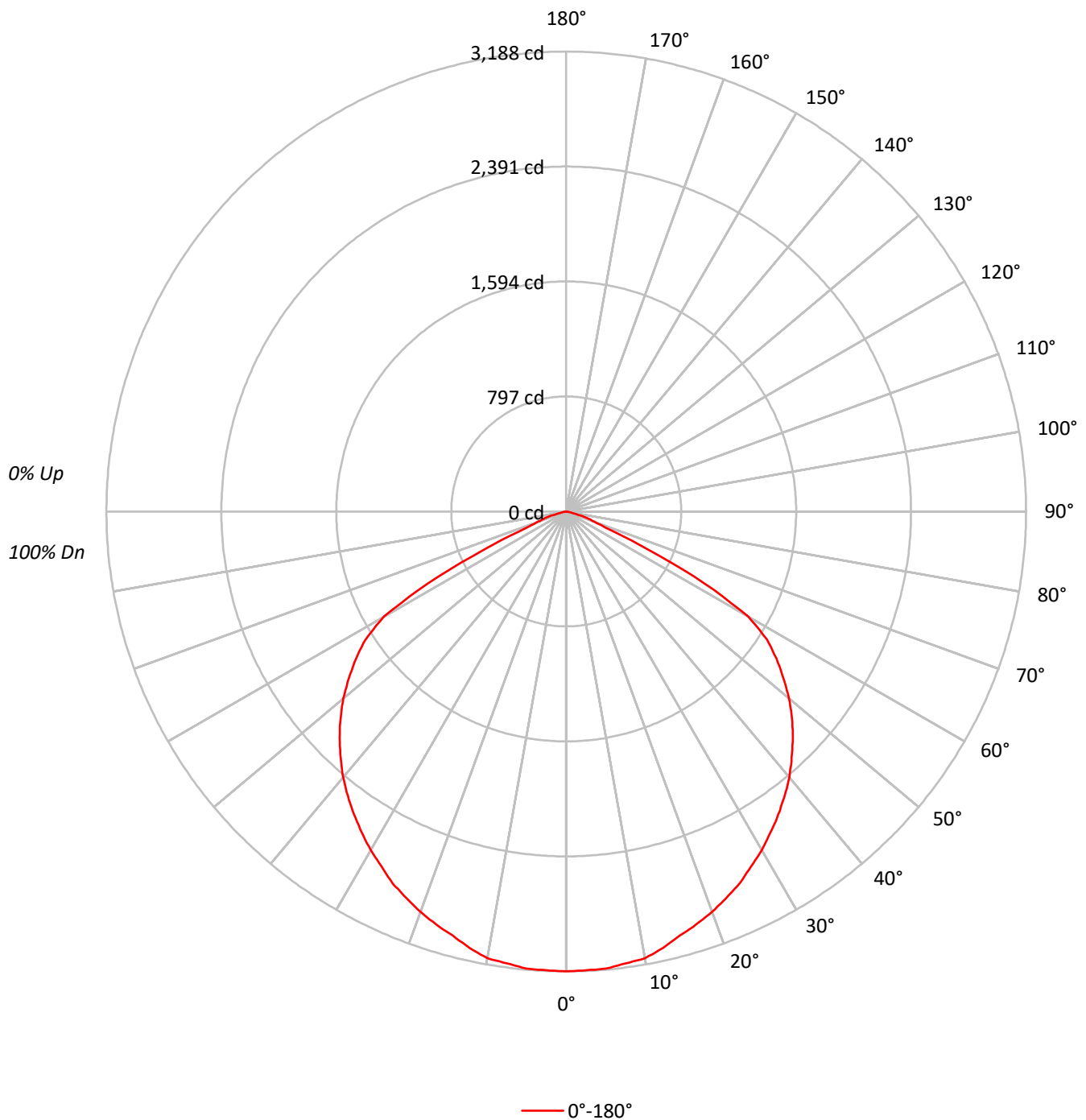
Lumens per Lamp: N/A
Luminaire Lumens: 8168.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	104	101	98		100	98	95		96	94	92		93	91	90
2	102	95	89	84		99	93	87	83		89	85	81		86	82	79		83	80	77
3	93	84	76	71		91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	60		83	73	66	60		71	64	59		69	63	58		67	62	58
5	79	67	58	52		77	66	58	52		64	57	51		62	56	51		60	55	50
6	73	60	52	46		71	59	51	45		57	50	45		56	49	45		54	49	44
7	68	55	46	40		66	54	46	40		52	45	40		51	44	40		49	44	39
8	63	50	42	36		61	49	41	36		48	41	36		47	40	35		45	40	35
9	59	46	38	32		57	45	37	32		44	37	32		43	36	32		42	36	32
10	55	42	34	29		54	42	34	29		41	34	29		40	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14265
5°	14288
10°	14292
15°	14101
20°	14068
25°	14049
30°	14008
35°	14010
40°	14056
45°	14063
50°	14039
55°	13872
60°	13040
65°	6676
70°	2688
75°	1266
80°	242
85°	365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 14063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	3.7
10°-20°	861.3	10.5
20°-30°	1310.3	16.0
30°-40°	1605.5	19.7
40°-50°	1713.3	21.0
50°-60°	1579.7	19.3
60°-70°	695.5	8.5
70°-80°	93.1	1.1
80°-90°	7.1	0.1
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°	2473.7	30.3
0°-40°	4079.2	49.9
0°-60°	7372.3	90.3
0°-90°	8168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8168.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3188	
5°	3181	302
15°	3044	861
25°	2845	1310
35°	2564	1606
45°	2222	1713
55°	1778	1580
65°	630	696
75°	73	93
85°	7	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3187.7
2.5°	3183.0
5°	3180.6
7.5°	3159.4
10°	3145.2
12.5°	3098.0
15°	3043.7
17.5°	3001.2
20°	2954.0
22.5°	2899.7
25°	2845.3
27.5°	2774.5
30°	2710.8
32.5°	2637.6
35°	2564.4
37.5°	2486.4
40°	2406.1
42.5°	2314.1
45°	2222.0
47.5°	2122.8
50°	2016.5
52.5°	1898.5
55°	1778.0
57.5°	1650.5
60°	1456.9
62.5°	1083.8
65°	630.5
67.5°	292.8
70°	205.4
72.5°	153.5
75°	73.2
77.5°	21.3
80°	9.4
82.5°	9.4
85°	7.1
87.5°	4.7
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	22.07	23.62	22.44	23.94	24.25	22.07	23.62	22.44	23.94	24.25
	3H	22.12	23.50	22.50	23.82	24.18	22.12	23.50	22.50	23.82	24.18
	4H	22.09	23.37	22.49	23.72	24.10	22.09	23.37	22.49	23.72	24.10
	6H	22.03	23.21	22.44	23.57	23.97	22.03	23.21	22.44	23.57	23.97
	8H	21.99	23.11	22.42	23.50	23.91	21.99	23.11	22.42	23.50	23.91
	12H	21.96	23.03	22.39	23.42	23.85	21.96	23.03	22.39	23.42	23.85
4H	2H	22.17	23.45	22.57	23.80	24.18	22.17	23.45	22.57	23.80	24.18
	3H	22.26	23.30	22.67	23.71	24.11	22.26	23.30	22.67	23.71	24.11
	4H	22.22	23.15	22.65	23.57	24.01	22.22	23.15	22.65	23.57	24.01
	6H	22.16	22.97	22.62	23.41	23.87	22.16	22.97	22.62	23.41	23.87
	8H	22.12	22.87	22.58	23.32	23.78	22.12	22.87	22.58	23.32	23.78
	12H	22.09	22.76	22.57	23.24	23.71	22.09	22.76	22.57	23.24	23.71
8H	4H	22.13	22.89	22.60	23.33	23.80	22.13	22.89	22.60	23.33	23.80
	6H	22.05	22.67	22.55	23.16	23.64	22.05	22.67	22.55	23.16	23.64
	8H	22.00	22.56	22.52	23.07	23.56	22.00	22.56	22.52	23.07	23.56
	12H	21.97	22.46	22.48	22.95	23.52	21.97	22.46	22.48	22.95	23.52
12H	4H	22.10	22.77	22.58	23.25	23.72	22.10	22.77	22.58	23.25	23.72
	6H	22.00	22.56	22.52	23.07	23.55	22.00	22.56	22.52	23.07	23.55
	8H	21.97	22.46	22.48	22.95	23.52	21.97	22.46	22.48	22.95	23.52