

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: P979811

Luminaire Tested: PRLX-241-935-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979811
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-241-935-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

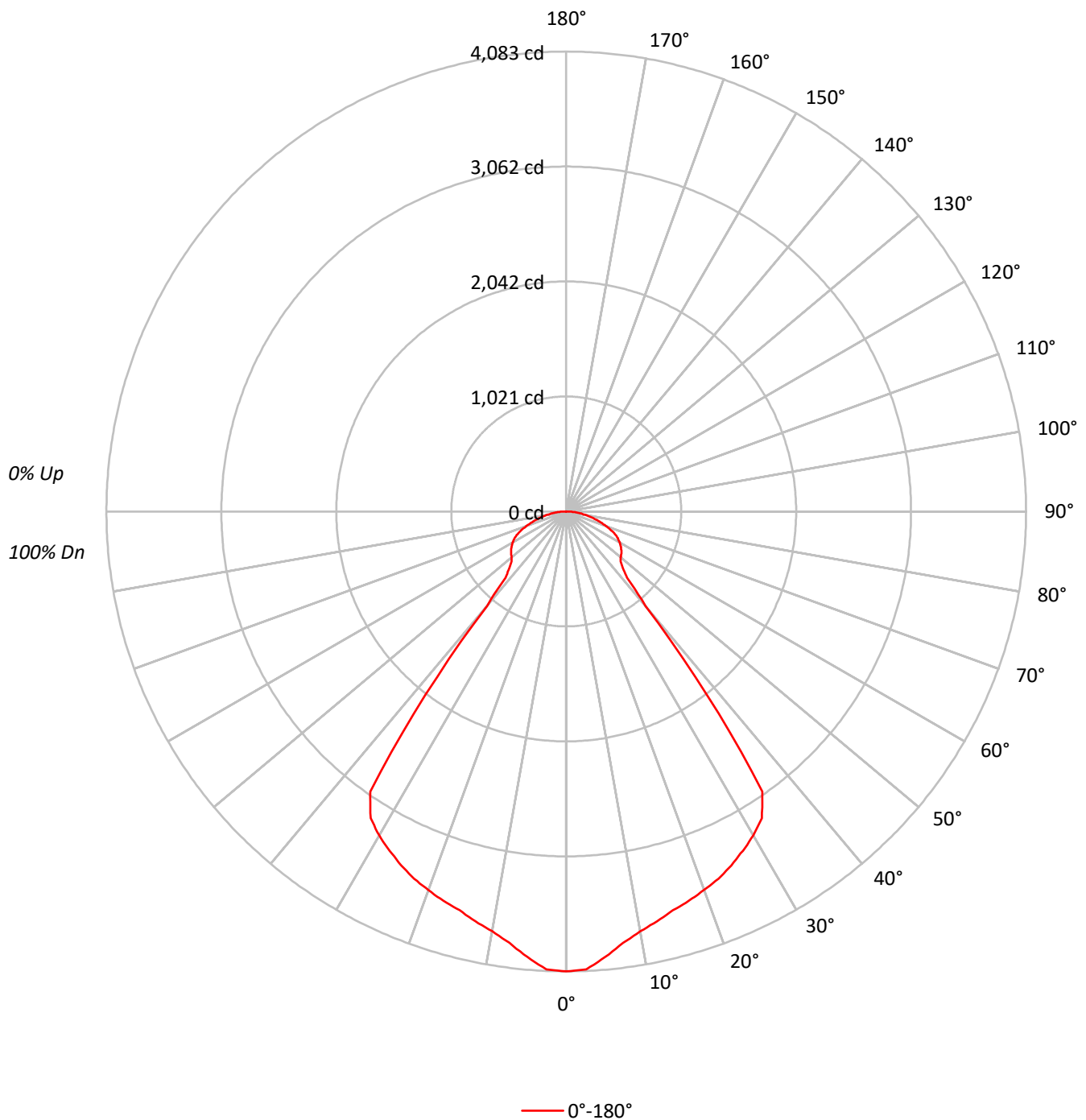
Lumens per Lamp: N/A
Luminaire Lumens: 6587.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		61
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		56
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31474
5°	30735
10°	29630
15°	29248
20°	29348
25°	29485
30°	29574
35°	28556
40°	11026
45°	7748
50°	7589
55°	8029
60°	8446
65°	8701
70°	8410
75°	7947
80°	7445
85°	6890

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 8701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	5.7
10°-20°	1038.5	15.8
20°-30°	1598.2	24.3
30°-40°	1625.6	24.7
40°-50°	582.4	8.8
50°-60°	532.6	8.1
60°-70°	465.3	7.1
70°-80°	283.0	4.3
80°-90°	89.0	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°	3009.6	45.7
0°-40°	4635.2	70.4
0°-60°	5750.1	87.3
0°-90°	6587.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6587.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4083	
5°	3972	373
15°	3665	1039
25°	3466	1598
35°	3034	1626
45°	711	582
55°	597	533
65°	477	465
75°	267	283
85°	78	89
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4082.7
2.5°	4068.5
5°	3971.7
7.5°	3863.1
10°	3785.1
12.5°	3726.1
15°	3664.7
17.5°	3624.6
20°	3577.3
22.5°	3530.1
25°	3466.4
27.5°	3395.5
30°	3322.3
32.5°	3230.2
35°	3034.3
37.5°	2054.3
40°	1095.6
42.5°	798.1
45°	710.7
47.5°	656.4
50°	632.8
52.5°	616.3
55°	597.4
57.5°	573.8
60°	547.8
62.5°	517.1
65°	477.0
67.5°	425.0
70°	373.1
72.5°	318.8
75°	266.8
77.5°	217.2
80°	167.7
82.5°	122.8
85°	77.9
87.5°	42.5
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	17.70	19.02	18.06	19.33	19.65	17.70	19.02	18.06	19.33	19.65
	3H	19.85	21.04	20.23	21.37	21.73	19.85	21.04	20.23	21.37	21.73
	4H	20.63	21.75	21.04	22.10	22.48	20.63	21.75	21.04	22.10	22.48
	6H	21.22	22.25	21.64	22.62	23.01	21.22	22.25	21.64	22.62	23.01
	8H	21.43	22.40	21.86	22.79	23.19	21.43	22.40	21.86	22.79	23.19
	12H	21.57	22.50	22.00	22.88	23.31	21.57	22.50	22.00	22.88	23.31
4H	2H	18.44	19.55	18.84	19.90	20.29	18.44	19.55	18.84	19.90	20.29
	3H	20.76	21.69	21.17	22.09	22.49	20.76	21.69	21.17	22.09	22.49
	4H	21.66	22.49	22.09	22.91	23.35	21.66	22.49	22.09	22.91	23.35
	6H	22.37	23.10	22.83	23.54	24.01	22.37	23.10	22.83	23.54	24.01
	8H	22.62	23.30	23.09	23.74	24.21	22.62	23.30	23.09	23.74	24.21
	12H	22.81	23.41	23.29	23.89	24.36	22.81	23.41	23.29	23.89	24.36
8H	4H	21.98	22.66	22.45	23.10	23.57	21.98	22.66	22.45	23.10	23.57
	6H	22.83	23.39	23.33	23.88	24.36	22.83	23.39	23.33	23.88	24.36
	8H	23.17	23.67	23.69	24.18	24.67	23.17	23.67	23.69	24.18	24.67
	12H	23.46	23.89	23.97	24.38	24.95	23.46	23.89	23.97	24.38	24.95
12H	4H	22.01	22.61	22.49	23.09	23.56	22.01	22.61	22.49	23.09	23.56
	6H	22.90	23.39	23.42	23.91	24.40	22.90	23.39	23.42	23.91	24.40
	8H	23.30	23.73	23.82	24.23	24.80	23.30	23.73	23.82	24.23	24.80