

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979701

Luminaire Tested: PRLX-241-930-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979701
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-241-930-LL5-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

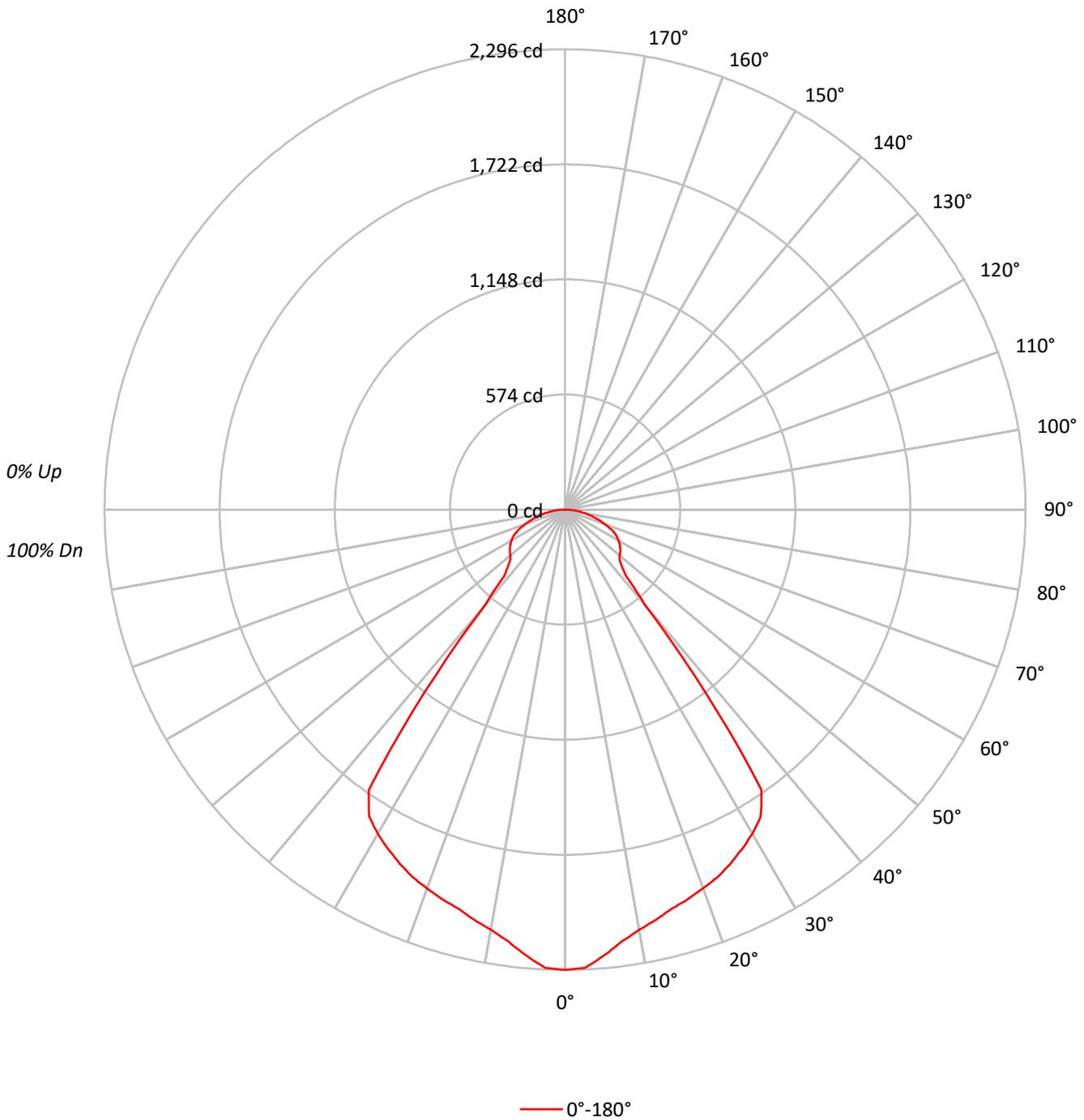
Lumens per Lamp: N/A
Luminaire Lumens: 3704.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17697
5°	17282
10°	16660
15°	16446
20°	16502
25°	16579
30°	16629
35°	16056
40°	6200
45°	4357
50°	4267
55°	4515
60°	4749
65°	4892
70°	4729
75°	4468
80°	4186
85°	3874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 4892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	5.7
10°-20°	583.9	15.8
20°-30°	898.6	24.3
30°-40°	914.1	24.7
40°-50°	327.5	8.8
50°-60°	299.4	8.1
60°-70°	261.6	7.1
70°-80°	159.1	4.3
80°-90°	50.0	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°	1692.2	45.7
0°-40°	2606.3	70.4
0°-60°	3233.2	87.3
0°-90°	3704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2296	
5°	2233	210
15°	2061	584
25°	1949	899
35°	1706	914
45°	400	327
55°	336	299
65°	268	262
75°	150	159
85°	44	50
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2295.6
2.5°	2287.7
5°	2233.2
7.5°	2172.1
10°	2128.3
12.5°	2095.1
15°	2060.6
17.5°	2038.0
20°	2011.5
22.5°	1984.9
25°	1949.1
27.5°	1909.3
30°	1868.1
32.5°	1816.3
35°	1706.1
37.5°	1155.1
40°	616.1
42.5°	448.8
45°	399.6
47.5°	369.1
50°	355.8
52.5°	346.5
55°	335.9
57.5°	322.6
60°	308.0
62.5°	290.8
65°	268.2
67.5°	239.0
70°	209.8
72.5°	179.2
75°	150.0
77.5°	122.1
80°	94.3
82.5°	69.0
85°	43.8
87.5°	23.9
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	15.69	17.02	16.06	17.33	17.64	15.69	17.02	16.06	17.33	17.64
	3H	17.85	19.04	18.23	19.37	19.73	17.85	19.04	18.23	19.37	19.73
	4H	18.63	19.75	19.04	20.10	20.48	18.63	19.75	19.04	20.10	20.48
	6H	19.22	20.25	19.64	20.62	21.01	19.22	20.25	19.64	20.62	21.01
	8H	19.42	20.40	19.85	20.79	21.19	19.42	20.40	19.85	20.79	21.19
	12H	19.56	20.50	20.00	20.88	21.31	19.56	20.50	20.00	20.88	21.31
4H	2H	16.44	17.55	16.84	17.90	18.29	16.44	17.55	16.84	17.90	18.29
	3H	18.76	19.69	19.17	20.09	20.49	18.76	19.69	19.17	20.09	20.49
	4H	19.66	20.49	20.09	20.91	21.35	19.66	20.49	20.09	20.91	21.35
	6H	20.37	21.09	20.83	21.54	22.01	20.37	21.09	20.83	21.54	22.01
	8H	20.62	21.30	21.09	21.74	22.21	20.62	21.30	21.09	21.74	22.21
	12H	20.81	21.41	21.29	21.89	22.36	20.81	21.41	21.29	21.89	22.36
8H	4H	19.98	20.66	20.45	21.10	21.57	19.98	20.66	20.45	21.10	21.57
	6H	20.83	21.39	21.33	21.88	22.36	20.83	21.39	21.33	21.88	22.36
	8H	21.17	21.67	21.69	22.18	22.67	21.17	21.67	21.69	22.18	22.67
	12H	21.45	21.89	21.97	22.38	22.95	21.45	21.89	21.97	22.38	22.95
12H	4H	20.01	20.61	20.49	21.09	21.56	20.01	20.61	20.49	21.09	21.56
	6H	20.90	21.39	21.42	21.91	22.40	20.90	21.39	21.42	21.91	22.40
	8H	21.30	21.73	21.82	22.23	22.80	21.30	21.73	21.82	22.23	22.80