

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: P979841

Luminaire Tested: PRLX-241-940-23L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979841
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-241-940-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

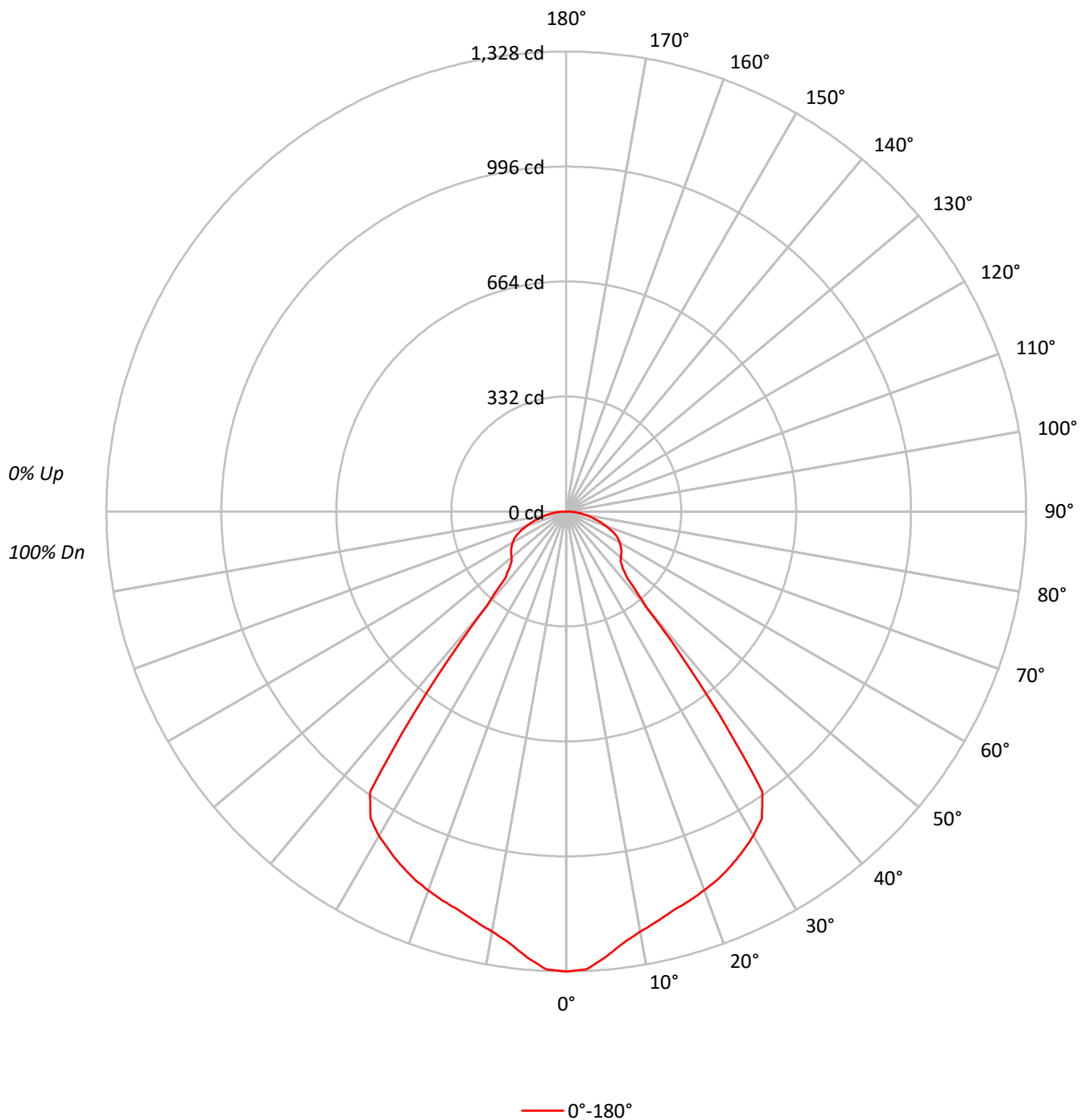
Lumens per Lamp: N/A
Luminaire Lumens: 2143.6 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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°	10242
5°	10001
10°	9642
15°	9517
20°	9550
25°	9595
30°	9624
35°	9292
40°	3588
45°	2522
50°	2469
55°	2613
60°	2749
65°	2831
70°	2736
75°	2585
80°	2424
85°	2247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 2831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	5.7
10°-20°	337.9	15.8
20°-30°	520.1	24.3
30°-40°	529.0	24.7
40°-50°	189.5	8.8
50°-60°	173.3	8.1
60°-70°	151.4	7.1
70°-80°	92.1	4.3
80°-90°	29.0	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°	979.3	45.7
0°-40°	1508.3	70.4
0°-60°	1871.1	87.3
0°-90°	2143.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1328	
5°	1292	121
15°	1192	338
25°	1128	520
35°	987	529
45°	231	190
55°	194	173
65°	155	151
75°	87	92
85°	25	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1328.5
2.5°	1323.9
5°	1292.4
7.5°	1257.1
10°	1231.7
12.5°	1212.5
15°	1192.5
17.5°	1179.5
20°	1164.1
22.5°	1148.7
25°	1128.0
27.5°	1104.9
30°	1081.1
32.5°	1051.2
35°	987.4
37.5°	668.5
40°	356.5
42.5°	259.7
45°	231.3
47.5°	213.6
50°	205.9
52.5°	200.5
55°	194.4
57.5°	186.7
60°	178.3
62.5°	168.3
65°	155.2
67.5°	138.3
70°	121.4
72.5°	103.7
75°	86.8
77.5°	70.7
80°	54.6
82.5°	40.0
85°	25.4
87.5°	13.8
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	13.79	15.12	14.16	15.43	15.74	13.79	15.12	14.16	15.43	15.74
	3H	15.95	17.14	16.33	17.47	17.83	15.95	17.14	16.33	17.47	17.83
	4H	16.73	17.84	17.13	18.19	18.58	16.73	17.84	17.13	18.19	18.58
	6H	17.32	18.35	17.74	18.72	19.11	17.32	18.35	17.74	18.72	19.11
	8H	17.53	18.50	17.96	18.89	19.29	17.53	18.50	17.96	18.89	19.29
	12H	17.67	18.60	18.10	18.98	19.41	17.67	18.60	18.10	18.98	19.41
4H	2H	14.54	15.65	14.94	16.00	16.39	14.54	15.65	14.94	16.00	16.39
	3H	16.86	17.79	17.27	18.19	18.59	16.86	17.79	17.27	18.19	18.59
	4H	17.75	18.59	18.19	19.01	19.45	17.75	18.59	18.19	19.01	19.45
	6H	18.47	19.20	18.93	19.64	20.11	18.47	19.20	18.93	19.64	20.11
	8H	18.72	19.40	19.19	19.84	20.31	18.72	19.40	19.19	19.84	20.31
	12H	18.91	19.51	19.39	19.99	20.46	18.91	19.51	19.39	19.99	20.46
8H	4H	18.08	18.75	18.54	19.20	19.67	18.08	18.75	18.54	19.20	19.67
	6H	18.93	19.49	19.43	19.98	20.46	18.93	19.49	19.43	19.98	20.46
	8H	19.27	19.77	19.79	20.28	20.77	19.27	19.77	19.79	20.28	20.77
	12H	19.56	19.99	20.07	20.48	21.05	19.56	19.99	20.07	20.48	21.05
12H	4H	18.11	18.71	18.59	19.19	19.66	18.11	18.71	18.59	19.19	19.66
	6H	19.00	19.49	19.52	20.01	20.50	19.00	19.49	19.52	20.01	20.50
	8H	19.40	19.83	19.92	20.33	20.90	19.40	19.83	19.92	20.33	20.90