

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: P979891

Luminaire Tested: PRLX-241-940-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979891
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-241-940-74L-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

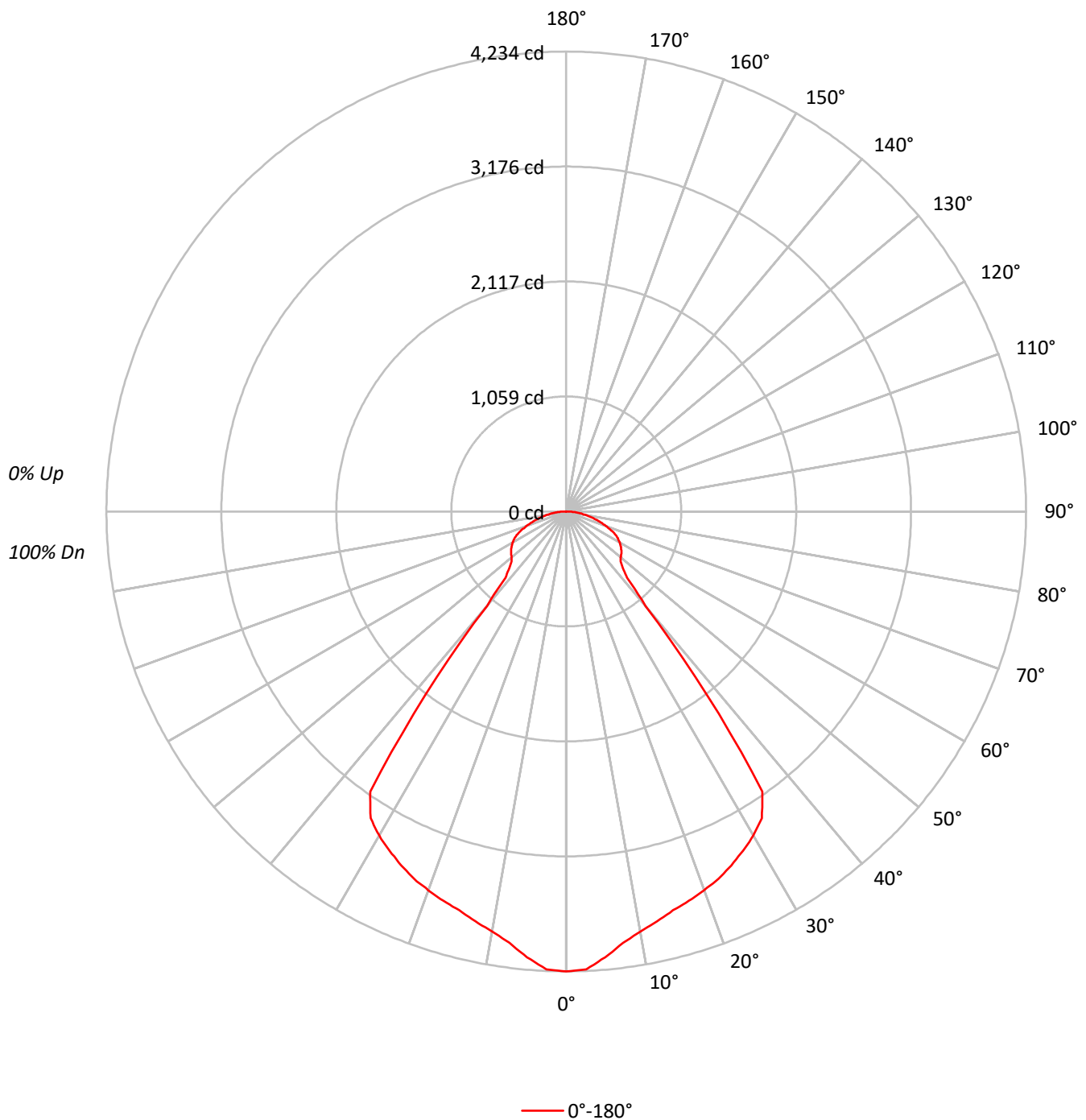
Lumens per Lamp: N/A
Luminaire Lumens: 6832.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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		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°	32643
5°	31877
10°	30731
15°	30335
20°	30439
25°	30581
30°	30673
35°	29617
40°	11436
45°	8037
50°	7871
55°	8328
60°	8761
65°	9024
70°	8723
75°	8242
80°	7720
85°	7147

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 9024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	5.7
10°-20°	1077.1	15.8
20°-30°	1657.6	24.3
30°-40°	1686.1	24.7
40°-50°	604.0	8.8
50°-60°	552.4	8.1
60°-70°	482.6	7.1
70°-80°	293.6	4.3
80°-90°	92.3	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°	3121.4	45.7
0°-40°	4807.5	70.4
0°-60°	5963.9	87.3
0°-90°	6832.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4234	
5°	4119	387
15°	3801	1077
25°	3595	1658
35°	3147	1686
45°	737	604
55°	620	552
65°	495	483
75°	277	294
85°	81	92
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4234.4
2.5°	4219.7
5°	4119.3
7.5°	4006.6
10°	3925.8
12.5°	3864.6
15°	3800.9
17.5°	3759.3
20°	3710.3
22.5°	3661.3
25°	3595.2
27.5°	3521.7
30°	3445.8
32.5°	3350.3
35°	3147.0
37.5°	2130.7
40°	1136.4
42.5°	827.8
45°	737.2
47.5°	680.8
50°	656.3
52.5°	639.2
55°	619.6
57.5°	595.1
60°	568.2
62.5°	536.3
65°	494.7
67.5°	440.8
70°	387.0
72.5°	330.6
75°	276.7
77.5°	225.3
80°	173.9
82.5°	127.4
85°	80.8
87.5°	44.1
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	17.82	19.14	18.19	19.46	19.77	17.82	19.14	18.19	19.46	19.77
	3H	19.98	21.17	20.36	21.50	21.86	19.98	21.17	20.36	21.50	21.86
	4H	20.76	21.87	21.16	22.22	22.61	20.76	21.87	21.16	22.22	22.61
	6H	21.35	22.38	21.76	22.75	23.14	21.35	22.38	21.76	22.75	23.14
	8H	21.55	22.53	21.98	22.92	23.32	21.55	22.53	21.98	22.92	23.32
	12H	21.69	22.62	22.12	23.01	23.44	21.69	22.62	22.12	23.01	23.44
4H	2H	18.57	19.68	18.97	20.03	20.41	18.57	19.68	18.97	20.03	20.41
	3H	20.89	21.81	21.30	22.22	22.62	20.89	21.81	21.30	22.22	22.62
	4H	21.78	22.62	22.22	23.04	23.48	21.78	22.62	22.22	23.04	23.48
	6H	22.50	23.22	22.96	23.67	24.13	22.50	23.22	22.96	23.67	24.13
	8H	22.75	23.43	23.22	23.87	24.34	22.75	23.43	23.22	23.87	24.34
	12H	22.94	23.53	23.42	24.02	24.49	22.94	23.53	23.42	24.02	24.49
8H	4H	22.11	22.78	22.57	23.23	23.70	22.11	22.78	22.57	23.23	23.70
	6H	22.96	23.51	23.46	24.01	24.49	22.96	23.51	23.46	24.01	24.49
	8H	23.30	23.79	23.82	24.31	24.80	23.30	23.79	23.82	24.31	24.80
	12H	23.58	24.01	24.10	24.51	25.08	23.58	24.01	24.10	24.51	25.08
12H	4H	22.13	22.73	22.62	23.22	23.69	22.13	22.73	22.62	23.22	23.69
	6H	23.02	23.52	23.54	24.03	24.52	23.02	23.52	23.54	24.03	24.52
	8H	23.43	23.86	23.94	24.36	24.93	23.43	23.86	23.94	24.36	24.93