

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: P979873

Luminaire Tested: PRLX-241-940-LL6-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL6-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

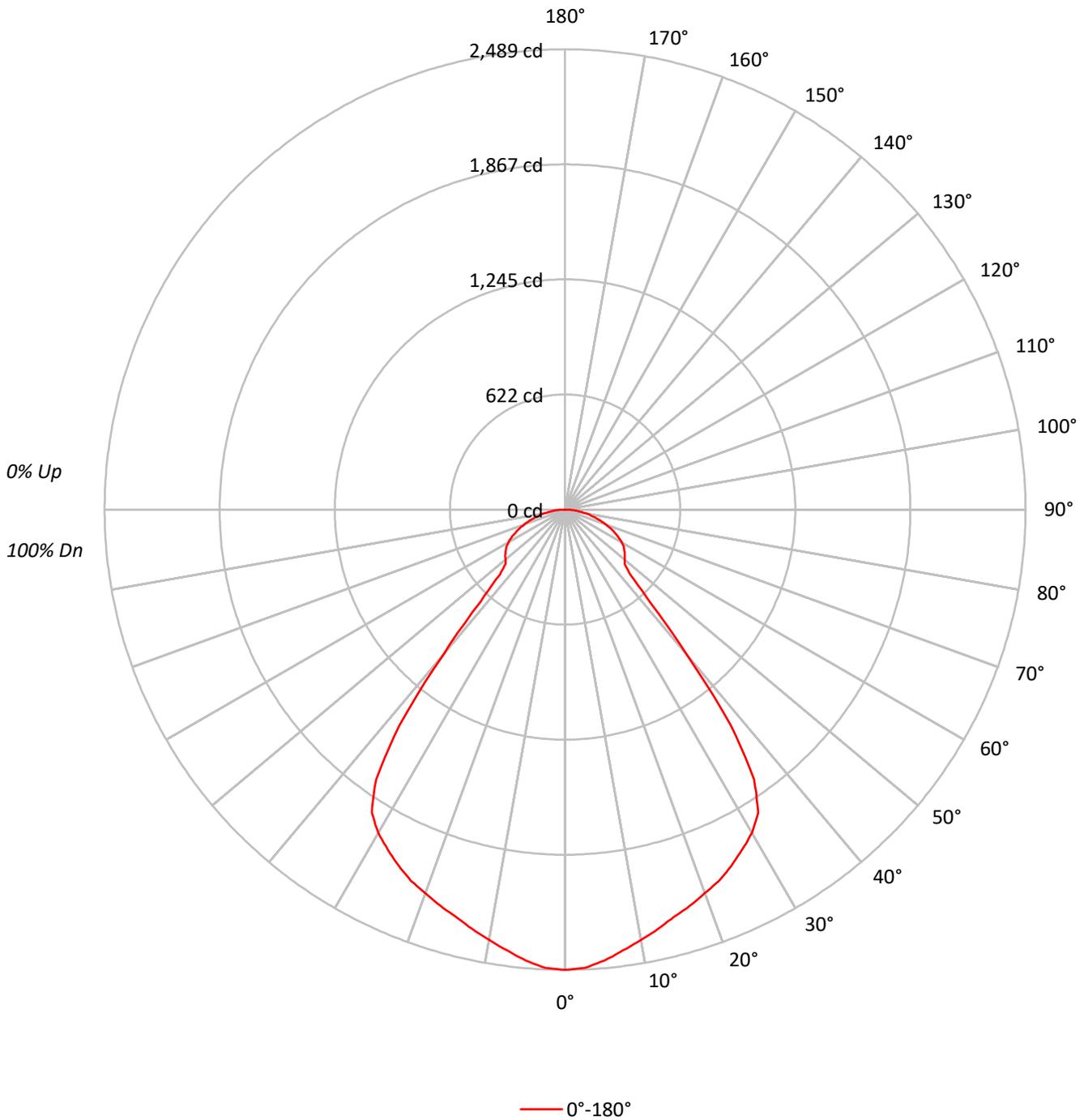
Lumens per Lamp: N/A
Luminaire Lumens: 4221.2 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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										
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	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	104	101	98	100	98	95	96	94	92	93	91	90	88																				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77																				
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																				
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																				
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																				
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49																				
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45																				
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41																				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38																				
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19186
5°	18941
10°	18502
15°	18194
20°	18116
25°	18082
30°	17978
35°	16769
40°	10322
45°	5427
50°	5038
55°	5263
60°	5450
65°	5407
70°	5252
75°	5004
80°	4715
85°	4343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 5453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	5.5
10°-20°	645.1	15.3
20°-30°	979.4	23.2
30°-40°	1043.6	24.7
40°-50°	445.9	10.6
50°-60°	349.7	8.3
60°-70°	292.3	6.9
70°-80°	178.1	4.2
80°-90°	56.3	1.3
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°	1855.4	44.0
0°-40°	2899.0	68.7
0°-60°	3694.5	87.5
0°-90°	4221.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2489	
5°	2448	231
15°	2280	645
25°	2126	979
35°	1782	1044
45°	498	446
55°	392	350
65°	296	292
75°	168	178
85°	49	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2488.8
2.5°	2480.9
5°	2447.6
7.5°	2404.8
10°	2363.6
12.5°	2322.4
15°	2279.6
17.5°	2246.3
20°	2208.2
22.5°	2173.4
25°	2125.8
27.5°	2073.5
30°	2019.6
32.5°	1943.5
35°	1781.8
37.5°	1472.7
40°	1025.7
42.5°	676.9
45°	497.8
47.5°	435.9
50°	420.1
52.5°	407.4
55°	391.6
57.5°	375.7
60°	353.5
62.5°	326.6
65°	296.4
67.5°	264.7
70°	233.0
72.5°	199.7
75°	168.0
77.5°	137.9
80°	106.2
82.5°	77.7
85°	49.1
87.5°	26.9
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	16.27	17.61	16.63	17.92	18.24	16.27	17.61	16.63	17.92	18.24
	3H	18.27	19.47	18.65	19.80	20.17	18.27	19.47	18.65	19.80	20.17
	4H	19.03	20.15	19.43	20.51	20.89	19.03	20.15	19.43	20.51	20.89
	6H	19.61	20.65	20.03	21.02	21.42	19.61	20.65	20.03	21.02	21.42
	8H	19.82	20.80	20.24	21.19	21.60	19.82	20.80	20.24	21.19	21.60
	12H	19.95	20.90	20.38	21.28	21.71	19.95	20.90	20.38	21.28	21.71
4H	2H	16.94	18.06	17.34	18.41	18.80	16.94	18.06	17.34	18.41	18.80
	3H	19.14	20.08	19.55	20.48	20.88	19.14	20.08	19.55	20.48	20.88
	4H	20.02	20.87	20.46	21.28	21.73	20.02	20.87	20.46	21.28	21.73
	6H	20.74	21.47	21.20	21.92	22.38	20.74	21.47	21.20	21.92	22.38
	8H	20.99	21.67	21.46	22.12	22.59	20.99	21.67	21.46	22.12	22.59
	12H	21.17	21.78	21.66	22.26	22.74	21.17	21.78	21.66	22.26	22.74
8H	4H	20.34	21.03	20.81	21.47	21.94	20.34	21.03	20.81	21.47	21.94
	6H	21.20	21.76	21.70	22.25	22.73	21.20	21.76	21.70	22.25	22.73
	8H	21.54	22.04	22.06	22.55	23.04	21.54	22.04	22.06	22.55	23.04
	12H	21.82	22.26	22.33	22.75	23.32	21.82	22.26	22.33	22.75	23.32
12H	4H	20.37	20.98	20.86	21.46	21.93	20.37	20.98	20.86	21.46	21.93
	6H	21.26	21.76	21.78	22.28	22.77	21.26	21.76	21.78	22.28	22.77
	8H	21.67	22.11	22.18	22.60	23.17	21.67	22.11	22.18	22.60	23.17