

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: P979661

Luminaire Tested: PRLX-241-930-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979661
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-LL1-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

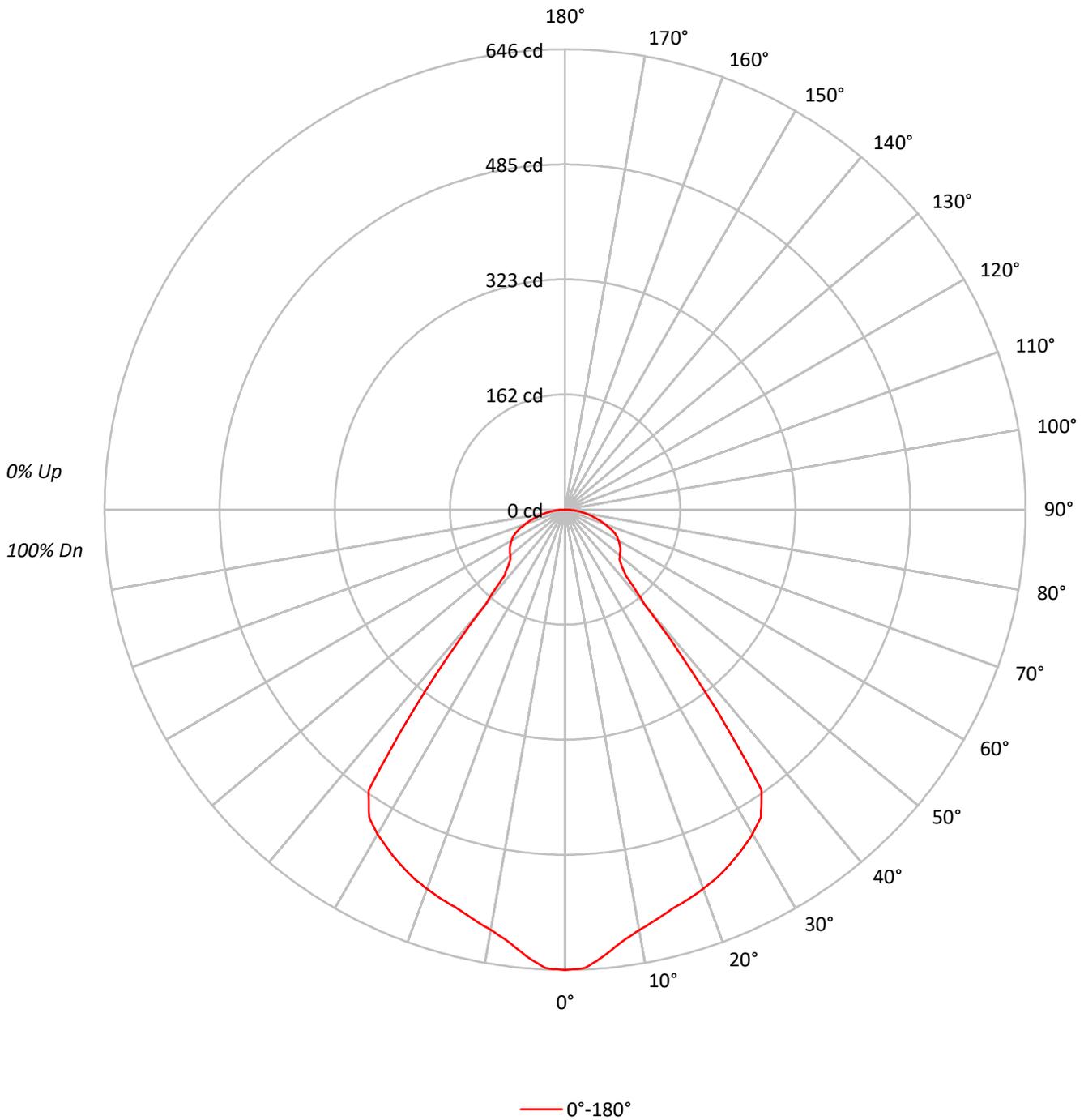
Lumens per Lamp: N/A
Luminaire Lumens: 1042.8 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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°	4982
5°	4865
10°	4691
15°	4630
20°	4646
25°	4667
30°	4681
35°	4520
40°	1745
45°	1227
50°	1202
55°	1271
60°	1337
65°	1377
70°	1332
75°	1257
80°	1176
85°	1088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 1377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	5.7
10°-20°	164.4	15.8
20°-30°	253.0	24.3
30°-40°	257.3	24.7
40°-50°	92.2	8.8
50°-60°	84.3	8.1
60°-70°	73.7	7.1
70°-80°	44.8	4.3
80°-90°	14.1	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°	476.4	45.7
0°-40°	733.7	70.4
0°-60°	910.2	87.3
0°-90°	1042.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	646	
5°	629	59
15°	580	164
25°	549	253
35°	480	257
45°	112	92
55°	95	84
65°	76	74
75°	42	45
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	646.3
2.5°	644.1
5°	628.7
7.5°	611.5
10°	599.2
12.5°	589.9
15°	580.1
17.5°	573.8
20°	566.3
22.5°	558.8
25°	548.7
27.5°	537.5
30°	525.9
32.5°	511.4
35°	480.3
37.5°	325.2
40°	173.4
42.5°	126.3
45°	112.5
47.5°	103.9
50°	100.2
52.5°	97.6
55°	94.6
57.5°	90.8
60°	86.7
62.5°	81.9
65°	75.5
67.5°	67.3
70°	59.1
72.5°	50.5
75°	42.2
77.5°	34.4
80°	26.5
82.5°	19.4
85°	12.3
87.5°	6.7
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	11.29	12.61	11.65	12.92	13.24	11.29	12.61	11.65	12.92	13.24
	3H	13.45	14.64	13.83	14.97	15.33	13.45	14.64	13.83	14.97	15.33
	4H	14.23	15.34	14.63	15.69	16.07	14.23	15.34	14.63	15.69	16.07
	6H	14.82	15.84	15.23	16.21	16.61	14.82	15.84	15.23	16.21	16.61
	8H	15.02	15.99	15.45	16.38	16.79	15.02	15.99	15.45	16.38	16.79
	12H	15.16	16.09	15.59	16.47	16.90	15.16	16.09	15.59	16.47	16.90
4H	2H	12.04	13.15	12.44	13.50	13.88	12.04	13.15	12.44	13.50	13.88
	3H	14.36	15.28	14.77	15.69	16.09	14.36	15.28	14.77	15.69	16.09
	4H	15.25	16.09	15.69	16.51	16.95	15.25	16.09	15.69	16.51	16.95
	6H	15.97	16.69	16.43	17.14	17.60	15.97	16.69	16.43	17.14	17.60
	8H	16.22	16.89	16.68	17.34	17.81	16.22	16.89	16.68	17.34	17.81
	12H	16.40	17.00	16.89	17.48	17.96	16.40	17.00	16.89	17.48	17.96
8H	4H	15.57	16.25	16.04	16.70	17.17	15.57	16.25	16.04	16.70	17.17
	6H	16.43	16.98	16.93	17.48	17.96	16.43	16.98	16.93	17.48	17.96
	8H	16.77	17.26	17.29	17.78	18.27	16.77	17.26	17.29	17.78	18.27
	12H	17.05	17.48	17.56	17.97	18.54	17.05	17.48	17.56	17.97	18.54
12H	4H	15.60	16.20	16.09	16.68	17.16	15.60	16.20	16.09	16.68	17.16
	6H	16.49	16.99	17.01	17.50	17.99	16.49	16.99	17.01	17.50	17.99
	8H	16.90	17.33	17.41	17.82	18.39	16.90	17.33	17.41	17.82	18.39