

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: P979613

Luminaire Tested: PRLX-241-927-31L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979613
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-241-927-31L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

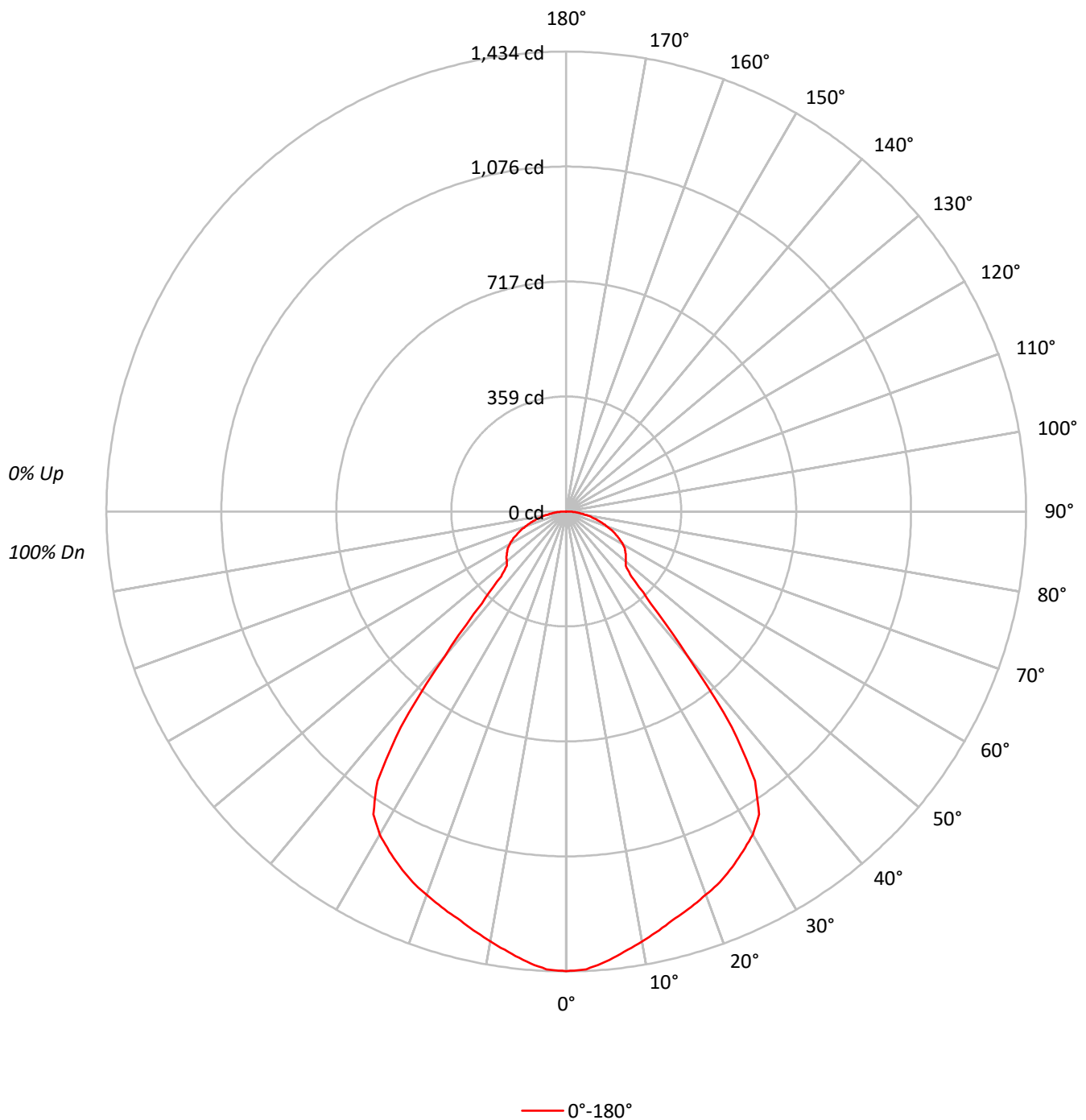
Lumens per Lamp: N/A
Luminaire Lumens: 2431.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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	104	101	98	100	98	95		96	94	92		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11051
5°	10909
10°	10656
15°	10478
20°	10434
25°	10415
30°	10354
35°	9658
40°	5945
45°	3126
50°	2902
55°	3031
60°	3139
65°	3114
70°	3025
75°	2883
80°	2717
85°	2503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 3140 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	5.5
10°-20°	371.5	15.3
20°-30°	564.1	23.2
30°-40°	601.1	24.7
40°-50°	256.8	10.6
50°-60°	201.4	8.3
60°-70°	168.4	6.9
70°-80°	102.6	4.2
80°-90°	32.4	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°	1068.6	44.0
0°-40°	1669.7	68.7
0°-60°	2127.9	87.5
0°-90°	2431.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2431.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1434	
5°	1410	133
15°	1313	372
25°	1224	564
35°	1026	601
45°	287	257
55°	226	201
65°	171	168
75°	97	103
85°	28	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1433.5
2.5°	1428.9
5°	1409.7
7.5°	1385.1
10°	1361.3
12.5°	1337.6
15°	1312.9
17.5°	1293.8
20°	1271.9
22.5°	1251.8
25°	1224.4
27.5°	1194.2
30°	1163.2
32.5°	1119.4
35°	1026.2
37.5°	848.2
40°	590.7
42.5°	389.9
45°	286.7
47.5°	251.1
50°	242.0
52.5°	234.6
55°	225.5
57.5°	216.4
60°	203.6
62.5°	188.1
65°	170.7
67.5°	152.5
70°	134.2
72.5°	115.0
75°	96.8
77.5°	79.4
80°	61.2
82.5°	44.7
85°	28.3
87.5°	15.5
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	14.35	15.69	14.72	16.00	16.32	14.35	15.69	14.72	16.00	16.32
	3H	16.36	17.56	16.73	17.89	18.25	16.36	17.56	16.73	17.89	18.25
	4H	17.11	18.24	17.51	18.59	18.97	17.11	18.24	17.51	18.59	18.97
	6H	17.70	18.74	18.11	19.11	19.50	17.70	18.74	18.11	19.11	19.50
	8H	17.90	18.89	18.33	19.28	19.68	17.90	18.89	18.33	19.28	19.68
	12H	18.04	18.98	18.47	19.36	19.79	18.04	18.98	18.47	19.36	19.79
4H	2H	15.02	16.15	15.42	16.50	16.88	15.02	16.15	15.42	16.50	16.88
	3H	17.22	18.16	17.63	18.56	18.96	17.22	18.16	17.63	18.56	18.96
	4H	18.10	18.95	18.54	19.37	19.81	18.10	18.95	18.54	19.37	19.81
	6H	18.82	19.55	19.28	20.00	20.46	18.82	19.55	19.28	20.00	20.46
	8H	19.07	19.76	19.54	20.20	20.67	19.07	19.76	19.54	20.20	20.67
	12H	19.26	19.86	19.74	20.35	20.82	19.26	19.86	19.74	20.35	20.82
8H	4H	18.42	19.11	18.89	19.56	20.03	18.42	19.11	18.89	19.56	20.03
	6H	19.28	19.84	19.78	20.34	20.82	19.28	19.84	19.78	20.34	20.82
	8H	19.62	20.12	20.14	20.64	21.13	19.62	20.12	20.14	20.64	21.13
	12H	19.90	20.34	20.41	20.83	21.40	19.90	20.34	20.41	20.83	21.40
12H	4H	18.45	19.06	18.94	19.54	20.02	18.45	19.06	18.94	19.54	20.02
	6H	19.35	19.85	19.87	20.36	20.85	19.35	19.85	19.87	20.36	20.85
	8H	19.75	20.19	20.26	20.68	21.25	19.75	20.19	20.26	20.68	21.25