

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: P979693

Luminaire Tested: PRLX-241-930-31L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979693
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-241-930-31L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

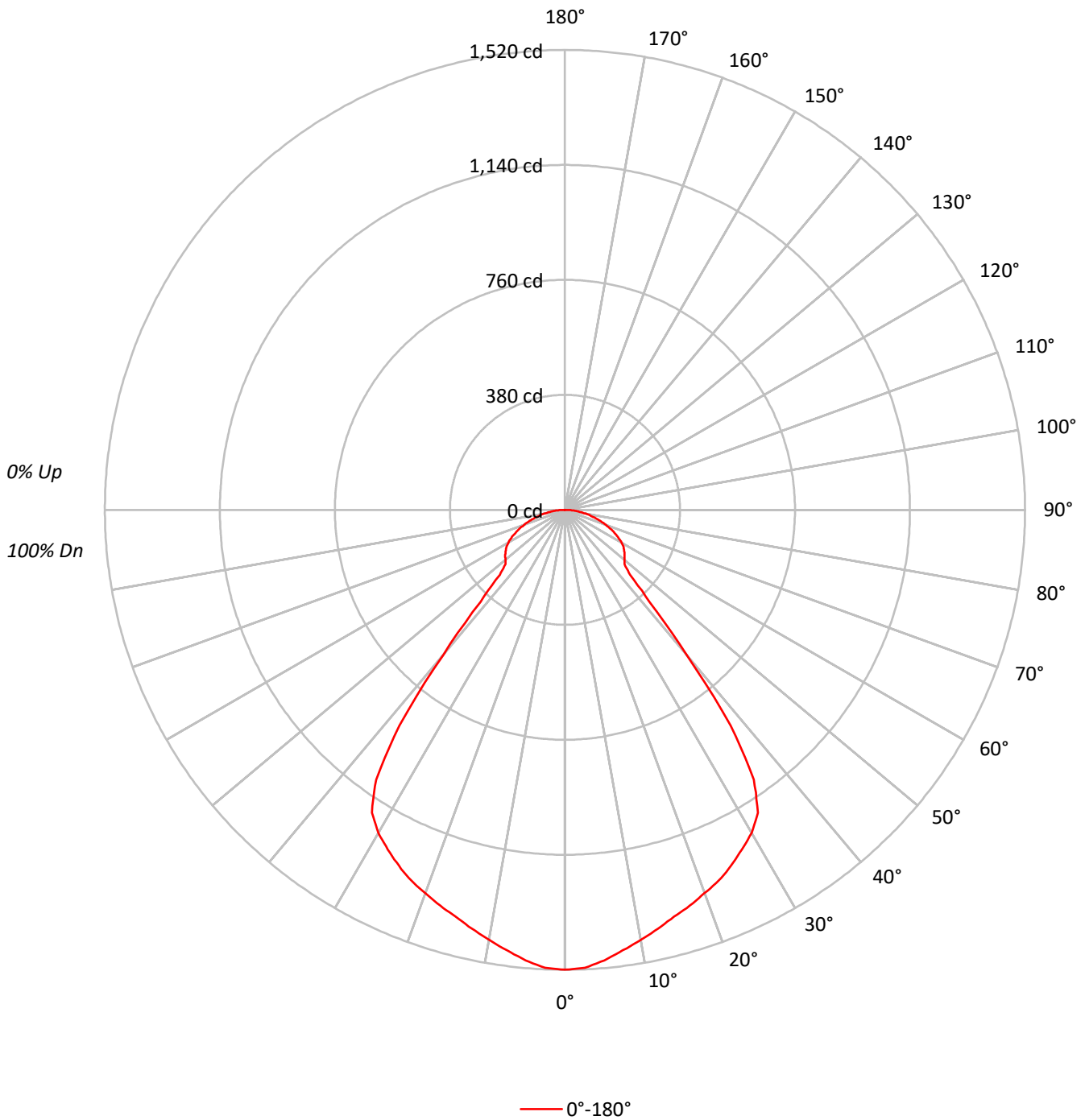
Lumens per Lamp: N/A
Luminaire Lumens: 2577.5 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	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	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°	11715
5°	11565
10°	11297
15°	11109
20°	11061
25°	11041
30°	10977
35°	10239
40°	6303
45°	3313
50°	3076
55°	3214
60°	3327
65°	3302
70°	3207
75°	3056
80°	2881
85°	2654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 3329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	5.5
10°-20°	393.9	15.3
20°-30°	598.0	23.2
30°-40°	637.2	24.7
40°-50°	272.2	10.6
50°-60°	213.5	8.3
60°-70°	178.5	6.9
70°-80°	108.8	4.2
80°-90°	34.4	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°	1132.9	44.0
0°-40°	1770.1	68.7
0°-60°	2255.8	87.5
0°-90°	2577.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1520	
5°	1494	141
15°	1392	394
25°	1298	598
35°	1088	637
45°	304	272
55°	239	214
65°	181	178
75°	103	109
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1519.6
2.5°	1514.8
5°	1494.5
7.5°	1468.3
10°	1443.2
12.5°	1418.0
15°	1391.9
17.5°	1371.6
20°	1348.3
22.5°	1327.0
25°	1298.0
27.5°	1266.1
30°	1233.1
32.5°	1186.7
35°	1088.0
37.5°	899.2
40°	626.3
42.5°	413.3
45°	303.9
47.5°	266.2
50°	256.5
52.5°	248.8
55°	239.1
57.5°	229.4
60°	215.8
62.5°	199.4
65°	181.0
67.5°	161.6
70°	142.3
72.5°	122.0
75°	102.6
77.5°	84.2
80°	64.9
82.5°	47.4
85°	30.0
87.5°	16.5
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	14.55	15.89	14.92	16.21	16.52	14.55	15.89	14.92	16.21	16.52
	3H	16.56	17.76	16.94	18.09	18.45	16.56	17.76	16.94	18.09	18.45
	4H	17.32	18.44	17.72	18.79	19.17	17.32	18.44	17.72	18.79	19.17
	6H	17.90	18.94	18.32	19.31	19.70	17.90	18.94	18.32	19.31	19.70
	8H	18.10	19.09	18.53	19.48	19.88	18.10	19.09	18.53	19.48	19.88
	12H	18.24	19.18	18.67	19.57	20.00	18.24	19.18	18.67	19.57	20.00
4H	2H	15.22	16.35	15.63	16.70	17.08	15.22	16.35	15.63	16.70	17.08
	3H	17.42	18.36	17.84	18.76	19.17	17.42	18.36	17.84	18.76	19.17
	4H	18.31	19.15	18.74	19.57	20.01	18.31	19.15	18.74	19.57	20.01
	6H	19.02	19.76	19.49	20.20	20.67	19.02	19.76	19.49	20.20	20.67
	8H	19.27	19.96	19.74	20.41	20.88	19.27	19.96	19.74	20.41	20.88
	12H	19.46	20.07	19.95	20.55	21.02	19.46	20.07	19.95	20.55	21.02
8H	4H	18.63	19.31	19.10	19.76	20.23	18.63	19.31	19.10	19.76	20.23
	6H	19.49	20.05	19.99	20.54	21.02	19.49	20.05	19.99	20.54	21.02
	8H	19.82	20.33	20.34	20.84	21.33	19.82	20.33	20.34	20.84	21.33
	12H	20.10	20.54	20.62	21.04	21.61	20.10	20.54	20.62	21.04	21.61
12H	4H	18.66	19.26	19.14	19.75	20.22	18.66	19.26	19.14	19.75	20.22
	6H	19.55	20.05	20.07	20.56	21.06	19.55	20.05	20.07	20.56	21.06
	8H	19.95	20.39	20.47	20.89	21.46	19.95	20.39	20.47	20.89	21.46