

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: P979601

Luminaire Tested: PRLX-241-927-23L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979601
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-241-927-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

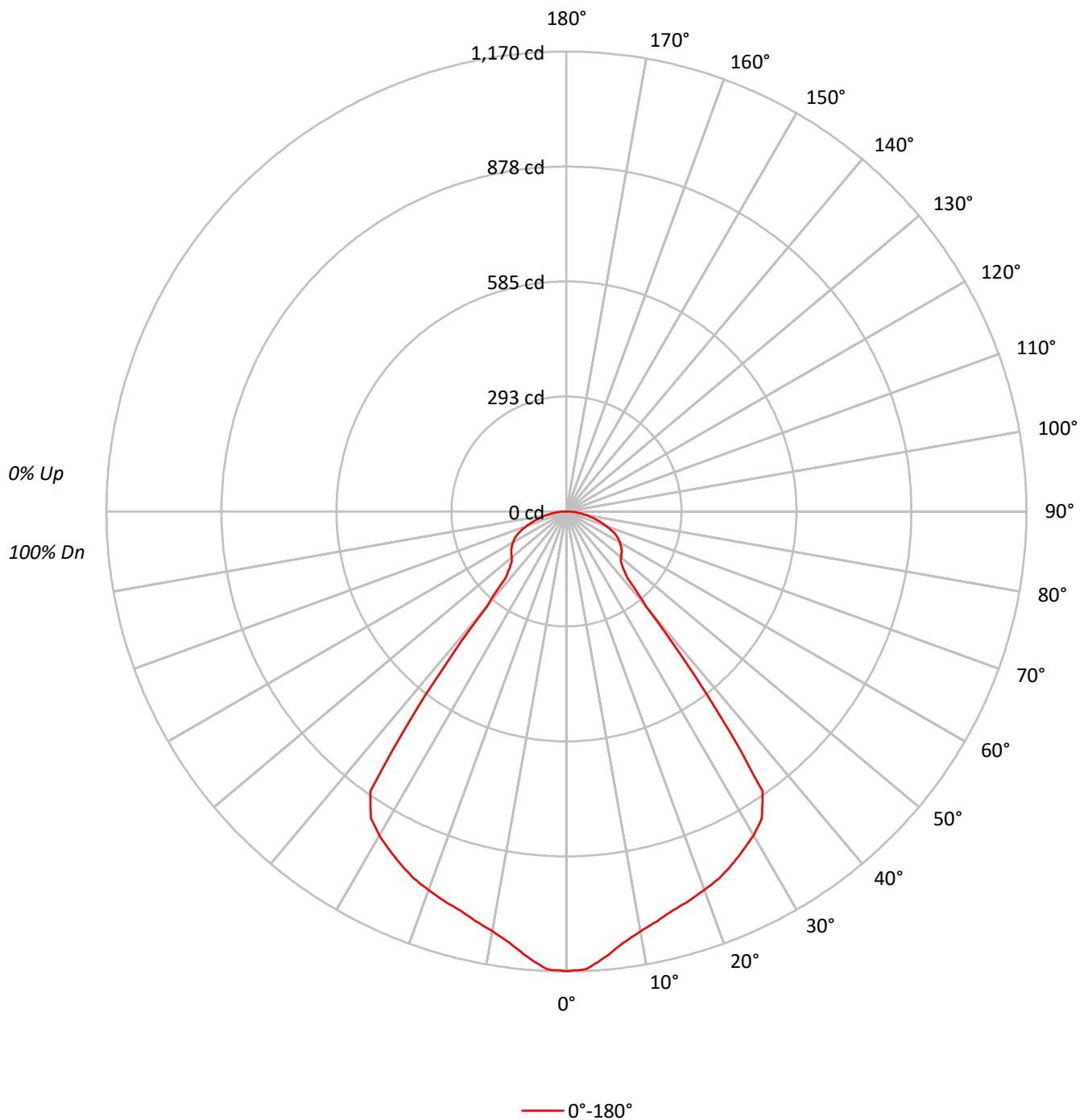
Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100		108	105	101	98		100	98	95		97	94	92		93	91	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	87	80	74		93	85	79	74		82	77	73		80	75	71		77	73	70
4	89	79	71	66		87	78	71	65		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	59		69	63	58		67	62	57		65	61	57
6	78	66	59	53		76	65	58	53		64	57	52		62	56	52		61	56	52
7	73	61	54	48		71	60	53	48		59	53	48		58	52	48		56	51	47
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	65	53	46	41		63	52	45	41		51	45	40		50	44	40		49	44	40
10	61	49	42	38		60	49	42	37		48	42	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9016
5°	8804
10°	8488
15°	8378
20°	8407
25°	8446
30°	8472
35°	8180
40°	3159
45°	2220
50°	2174
55°	2300
60°	2419
65°	2492
70°	2410
75°	2276
80°	2131
85°	1972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 2492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	5.7
10°-20°	297.5	15.8
20°-30°	457.8	24.3
30°-40°	465.7	24.7
40°-50°	166.8	8.8
50°-60°	152.6	8.1
60°-70°	133.3	7.1
70°-80°	81.1	4.3
80°-90°	25.5	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°	862.1	45.7
0°-40°	1327.8	70.4
0°-60°	1647.2	87.3
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1170	
5°	1138	107
15°	1050	298
25°	993	458
35°	869	466
45°	204	167
55°	171	153
65°	137	133
75°	76	81
85°	22	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1169.5
2.5°	1165.5
5°	1137.7
7.5°	1106.6
10°	1084.3
12.5°	1067.4
15°	1049.8
17.5°	1038.3
20°	1024.8
22.5°	1011.3
25°	993.0
27.5°	972.7
30°	951.7
32.5°	925.3
35°	869.2
37.5°	588.5
40°	313.9
42.5°	228.6
45°	203.6
47.5°	188.0
50°	181.3
52.5°	176.5
55°	171.1
57.5°	164.4
60°	156.9
62.5°	148.1
65°	136.6
67.5°	121.8
70°	106.9
72.5°	91.3
75°	76.4
77.5°	62.2
80°	48.0
82.5°	35.2
85°	22.3
87.5°	12.2
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	13.35	14.68	13.72	14.99	15.30	13.35	14.68	13.72	14.99	15.30
	3H	15.51	16.70	15.89	17.03	17.39	15.51	16.70	15.89	17.03	17.39
	4H	16.29	17.40	16.69	17.75	18.14	16.29	17.40	16.69	17.75	18.14
	6H	16.88	17.91	17.29	18.28	18.67	16.88	17.91	17.29	18.28	18.67
	8H	17.08	18.06	17.51	18.45	18.85	17.08	18.06	17.51	18.45	18.85
	12H	17.22	18.15	17.65	18.54	18.97	17.22	18.15	17.65	18.54	18.97
4H	2H	14.10	15.21	14.50	15.56	15.94	14.10	15.21	14.50	15.56	15.94
	3H	16.42	17.34	16.83	17.75	18.15	16.42	17.34	16.83	17.75	18.15
	4H	17.31	18.15	17.75	18.57	19.01	17.31	18.15	17.75	18.57	19.01
	6H	18.03	18.75	18.49	19.20	19.66	18.03	18.75	18.49	19.20	19.66
	8H	18.28	18.95	18.74	19.40	19.87	18.28	18.95	18.74	19.40	19.87
	12H	18.46	19.06	18.95	19.55	20.02	18.46	19.06	18.95	19.55	20.02
8H	4H	17.64	18.31	18.10	18.76	19.23	17.64	18.31	18.10	18.76	19.23
	6H	18.49	19.04	18.99	19.54	20.02	18.49	19.04	18.99	19.54	20.02
	8H	18.83	19.32	19.35	19.84	20.33	18.83	19.32	19.35	19.84	20.33
	12H	19.11	19.54	19.62	20.04	20.61	19.11	19.54	19.62	20.04	20.61
12H	4H	17.66	18.26	18.15	18.75	19.22	17.66	18.26	18.15	18.75	19.22
	6H	18.55	19.05	19.07	19.56	20.05	18.55	19.05	19.07	19.56	20.05
	8H	18.96	19.39	19.47	19.88	20.45	18.96	19.39	19.47	19.88	20.45