

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: P980081

Luminaire Tested: PRLX-242-935-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-LL3-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

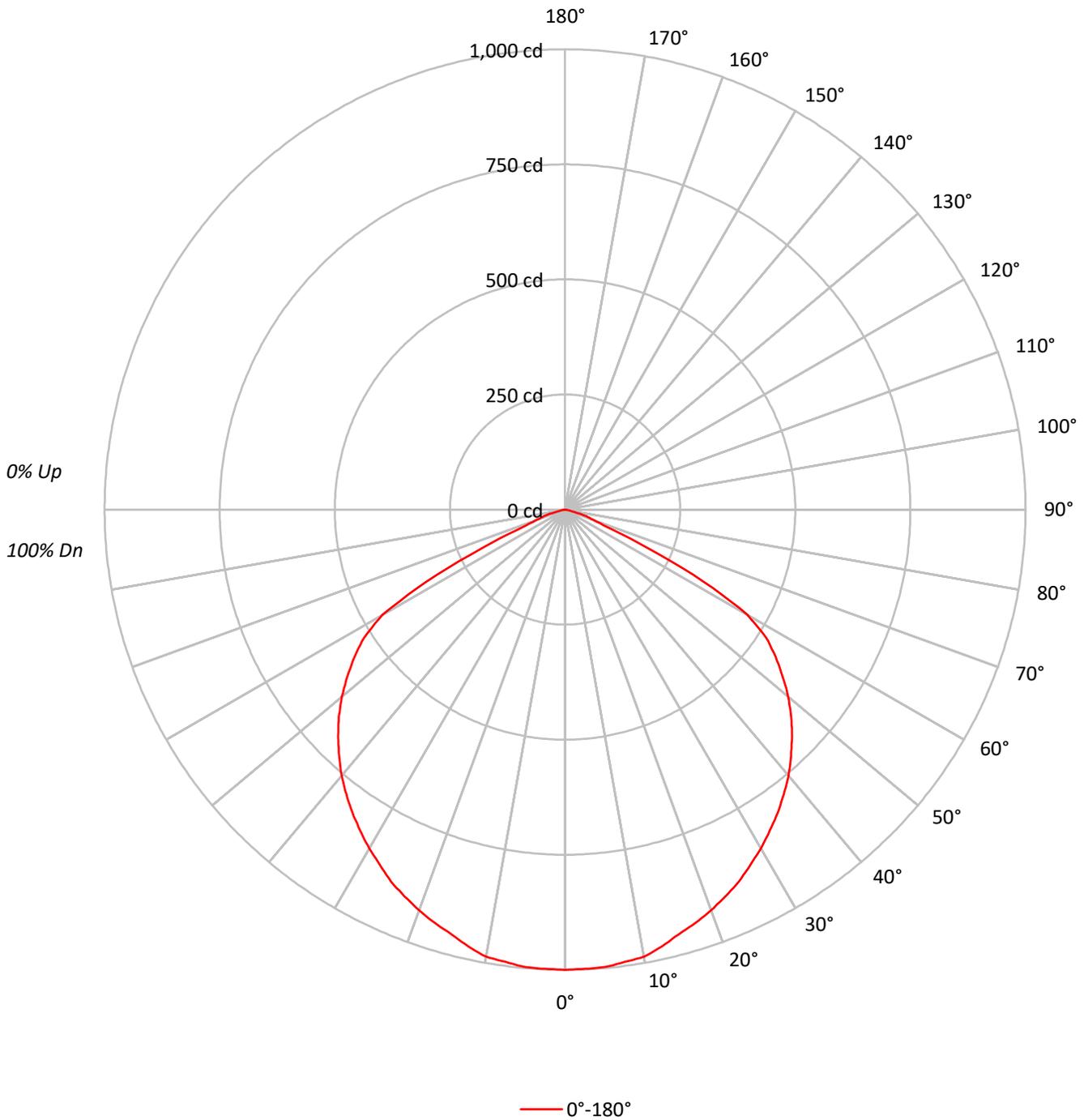
Lumens per Lamp: N/A
Luminaire Lumens: 2562.8 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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	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				100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88				88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56				56
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48				48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4476
5°	4483
10°	4484
15°	4424
20°	4414
25°	4408
30°	4395
35°	4396
40°	4410
45°	4412
50°	4405
55°	4353
60°	4091
65°	2095
70°	844
75°	398
80°	77
85°	113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.7
10°-20°	270.2	10.5
20°-30°	411.1	16.0
30°-40°	503.7	19.7
40°-50°	537.5	21.0
50°-60°	495.7	19.3
60°-70°	218.2	8.5
70°-80°	29.3	1.1
80°-90°	2.2	0.1
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°	776.1	30.3
0°-40°	1279.9	49.9
0°-60°	2313.0	90.3
0°-90°	2562.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1000	
5°	998	95
15°	955	270
25°	893	411
35°	805	504
45°	697	538
55°	558	496
65°	198	218
75°	23	29
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1000.2
2.5°	998.7
5°	997.9
7.5°	991.3
10°	986.8
12.5°	972.0
15°	955.0
17.5°	941.6
20°	926.8
22.5°	909.8
25°	892.7
27.5°	870.5
30°	850.5
32.5°	827.5
35°	804.6
37.5°	780.1
40°	754.9
42.5°	726.0
45°	697.1
47.5°	666.0
50°	632.7
52.5°	595.6
55°	557.9
57.5°	517.9
60°	457.1
62.5°	340.1
65°	197.8
67.5°	91.9
70°	64.5
72.5°	48.2
75°	23.0
77.5°	6.7
80°	3.0
82.5°	3.0
85°	2.2
87.5°	1.5
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	18.05	19.59	18.41	19.91	20.22	18.05	19.59	18.41	19.91	20.22
	3H	18.09	19.47	18.47	19.80	20.16	18.09	19.47	18.47	19.80	20.16
	4H	18.06	19.34	18.46	19.69	20.07	18.06	19.34	18.46	19.69	20.07
	6H	18.00	19.18	18.41	19.55	19.94	18.00	19.18	18.41	19.55	19.94
	8H	17.96	19.09	18.39	19.48	19.88	17.96	19.09	18.39	19.48	19.88
	12H	17.93	19.01	18.36	19.39	19.82	17.93	19.01	18.36	19.39	19.82
4H	2H	18.14	19.43	18.54	19.77	20.15	18.14	19.43	18.54	19.77	20.15
	3H	18.23	19.28	18.64	19.68	20.08	18.23	19.28	18.64	19.68	20.08
	4H	18.19	19.13	18.63	19.54	19.98	18.19	19.13	18.63	19.54	19.98
	6H	18.14	18.94	18.60	19.39	19.85	18.14	18.94	18.60	19.39	19.85
	8H	18.09	18.85	18.56	19.29	19.76	18.09	18.85	18.56	19.29	19.76
	12H	18.06	18.73	18.54	19.21	19.68	18.06	18.73	18.54	19.21	19.68
8H	4H	18.11	18.86	18.57	19.30	19.77	18.11	18.86	18.57	19.30	19.77
	6H	18.03	18.64	18.52	19.14	19.61	18.03	18.64	18.52	19.14	19.61
	8H	17.97	18.53	18.49	19.04	19.53	17.97	18.53	18.49	19.04	19.53
	12H	17.94	18.43	18.45	18.93	19.49	17.94	18.43	18.45	18.93	19.49
12H	4H	18.07	18.74	18.56	19.22	19.69	18.07	18.74	18.56	19.22	19.69
	6H	17.97	18.53	18.49	19.04	19.53	17.97	18.53	18.49	19.04	19.53
	8H	17.94	18.43	18.45	18.92	19.49	17.94	18.43	18.45	18.92	19.49