

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: P979763

Luminaire Tested: PRLX-241-935-LL3-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979763
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-241-935-LL3-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

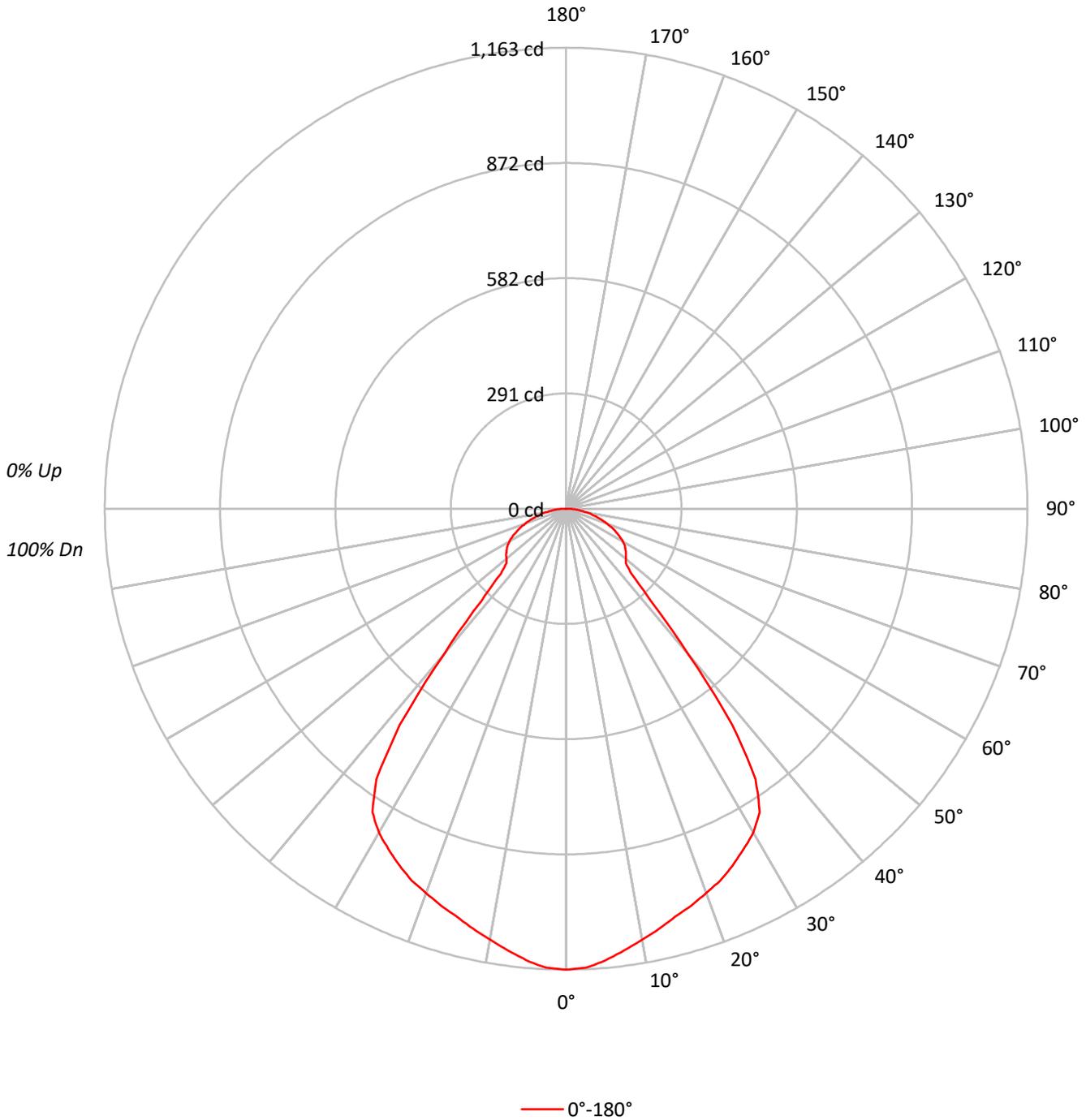
Lumens per Lamp: N/A
Luminaire Lumens: 1972.7 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8966
5°	8852
10°	8647
15°	8502
20°	8466
25°	8451
30°	8401
35°	7837
40°	4823
45°	2536
50°	2354
55°	2460
60°	2547
65°	2526
70°	2455
75°	2338
80°	2202
85°	2034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 2548 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	5.5
10°-20°	301.5	15.3
20°-30°	457.7	23.2
30°-40°	487.7	24.7
40°-50°	208.3	10.6
50°-60°	163.4	8.3
60°-70°	136.6	6.9
70°-80°	83.2	4.2
80°-90°	26.3	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°	867.1	44.0
0°-40°	1354.8	68.7
0°-60°	1726.6	87.5
0°-90°	1972.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1163	
5°	1144	108
15°	1065	301
25°	994	458
35°	833	488
45°	233	208
55°	183	163
65°	138	137
75°	78	83
85°	23	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1163.1
2.5°	1159.4
5°	1143.9
7.5°	1123.9
10°	1104.6
12.5°	1085.3
15°	1065.3
17.5°	1049.8
20°	1032.0
22.5°	1015.7
25°	993.5
27.5°	969.0
30°	943.8
32.5°	908.3
35°	832.7
37.5°	688.3
40°	479.3
42.5°	316.3
45°	232.6
47.5°	203.7
50°	196.3
52.5°	190.4
55°	183.0
57.5°	175.6
60°	165.2
62.5°	152.6
65°	138.5
67.5°	123.7
70°	108.9
72.5°	93.3
75°	78.5
77.5°	64.5
80°	49.6
82.5°	36.3
85°	23.0
87.5°	12.6
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	13.63	14.97	13.99	15.28	15.59	13.63	14.97	13.99	15.28	15.59
	3H	15.63	16.83	16.01	17.16	17.53	15.63	16.83	16.01	17.16	17.53
	4H	16.39	17.51	16.79	17.86	18.24	16.39	17.51	16.79	17.86	18.24
	6H	16.97	18.01	17.39	18.38	18.77	16.97	18.01	17.39	18.38	18.77
	8H	17.17	18.16	17.60	18.55	18.95	17.17	18.16	17.60	18.55	18.95
	12H	17.31	18.25	17.74	18.64	19.07	17.31	18.25	17.74	18.64	19.07
4H	2H	14.30	15.42	14.70	15.77	16.15	14.30	15.42	14.70	15.77	16.15
	3H	16.50	17.43	16.91	17.84	18.24	16.50	17.43	16.91	17.84	18.24
	4H	17.38	18.22	17.81	18.64	19.08	17.38	18.22	17.81	18.64	19.08
	6H	18.10	18.83	18.56	19.27	19.74	18.10	18.83	18.56	19.27	19.74
	8H	18.35	19.03	18.81	19.48	19.95	18.35	19.03	18.81	19.48	19.95
	12H	18.53	19.14	19.02	19.62	20.09	18.53	19.14	19.02	19.62	20.09
8H	4H	17.70	18.38	18.17	18.83	19.30	17.70	18.38	18.17	18.83	19.30
	6H	18.56	19.12	19.06	19.61	20.09	18.56	19.12	19.06	19.61	20.09
	8H	18.89	19.40	19.41	19.91	20.40	18.89	19.40	19.41	19.91	20.40
	12H	19.17	19.61	19.69	20.11	20.68	19.17	19.61	19.69	20.11	20.68
12H	4H	17.73	18.33	18.21	18.82	19.29	17.73	18.33	18.21	18.82	19.29
	6H	18.62	19.12	19.14	19.63	20.13	18.62	19.12	19.14	19.63	20.13
	8H	19.02	19.46	19.54	19.96	20.53	19.02	19.46	19.54	19.96	20.53