

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: P979803

Luminaire Tested: PRLX-241-935-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979803
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-LL7-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

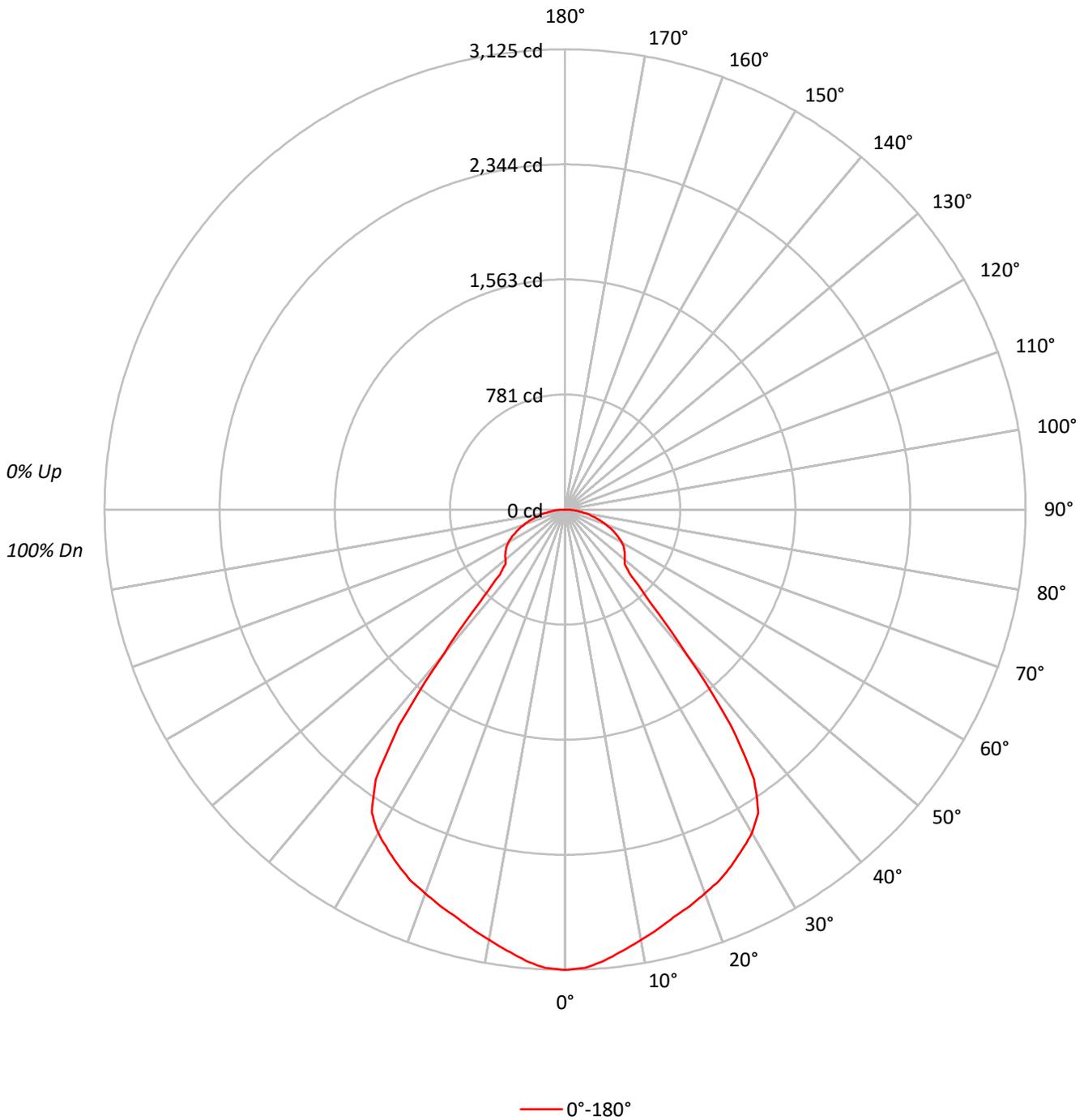
Lumens per Lamp: N/A
Luminaire Lumens: 5300.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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°	24094
5°	23785
10°	23234
15°	22847
20°	22749
25°	22707
30°	22576
35°	21057
40°	12962
45°	6815
50°	6326
55°	6609
60°	6844
65°	6791
70°	6595
75°	6285
80°	5922
85°	5457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 6847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	5.5
10°-20°	810.1	15.3
20°-30°	1229.9	23.2
30°-40°	1310.5	24.7
40°-50°	559.9	10.6
50°-60°	439.1	8.3
60°-70°	367.1	6.9
70°-80°	223.7	4.2
80°-90°	70.7	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°	2329.9	44.0
0°-40°	3640.5	68.7
0°-60°	4639.4	87.5
0°-90°	5300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5300.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3125	
5°	3074	290
15°	2863	810
25°	2670	1230
35°	2238	1311
45°	625	560
55°	492	439
65°	372	367
75°	211	224
85°	62	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3125.4
2.5°	3115.4
5°	3073.6
7.5°	3019.9
10°	2968.1
12.5°	2916.4
15°	2862.6
17.5°	2820.8
20°	2773.0
22.5°	2729.3
25°	2669.5
27.5°	2603.8
30°	2536.2
32.5°	2440.6
35°	2237.5
37.5°	1849.4
40°	1288.0
42.5°	850.0
45°	625.1
47.5°	547.4
50°	527.5
52.5°	511.6
55°	491.7
57.5°	471.8
60°	443.9
62.5°	410.1
65°	372.3
67.5°	332.4
70°	292.6
72.5°	250.8
75°	211.0
77.5°	173.2
80°	133.4
82.5°	97.5
85°	61.7
87.5°	33.8
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	17.06	18.40	17.42	18.71	19.03	17.06	18.40	17.42	18.71	19.03
	3H	19.06	20.27	19.44	20.59	20.96	19.06	20.27	19.44	20.59	20.96
	4H	19.82	20.95	20.22	21.30	21.68	19.82	20.95	20.22	21.30	21.68
	6H	20.41	21.45	20.82	21.81	22.21	20.41	21.45	20.82	21.81	22.21
	8H	20.61	21.59	21.04	21.98	22.39	20.61	21.59	21.04	21.98	22.39
	12H	20.74	21.69	21.18	22.07	22.50	20.74	21.69	21.18	22.07	22.50
4H	2H	17.73	18.86	18.13	19.21	19.59	17.73	18.86	18.13	19.21	19.59
	3H	19.93	20.87	20.34	21.27	21.67	19.93	20.87	20.34	21.27	21.67
	4H	20.81	21.66	21.25	22.08	22.52	20.81	21.66	21.25	22.08	22.52
	6H	21.53	22.26	21.99	22.71	23.17	21.53	22.26	21.99	22.71	23.17
	8H	21.78	22.46	22.25	22.91	23.38	21.78	22.46	22.25	22.91	23.38
	12H	21.97	22.57	22.45	23.05	23.53	21.97	22.57	22.45	23.05	23.53
8H	4H	21.13	21.82	21.60	22.26	22.73	21.13	21.82	21.60	22.26	22.73
	6H	21.99	22.55	22.49	23.05	23.53	21.99	22.55	22.49	23.05	23.53
	8H	22.33	22.83	22.85	23.34	23.84	22.33	22.83	22.85	23.34	23.84
	12H	22.61	23.05	23.12	23.54	24.11	22.61	23.05	23.12	23.54	24.11
12H	4H	21.16	21.77	21.65	22.25	22.72	21.16	21.77	21.65	22.25	22.72
	6H	22.05	22.56	22.57	23.07	23.56	22.05	22.56	22.57	23.07	23.56
	8H	22.46	22.90	22.97	23.39	23.96	22.46	22.90	22.97	23.39	23.96