

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: P979813

Luminaire Tested: PRLX-241-935-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979813
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-LL8-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

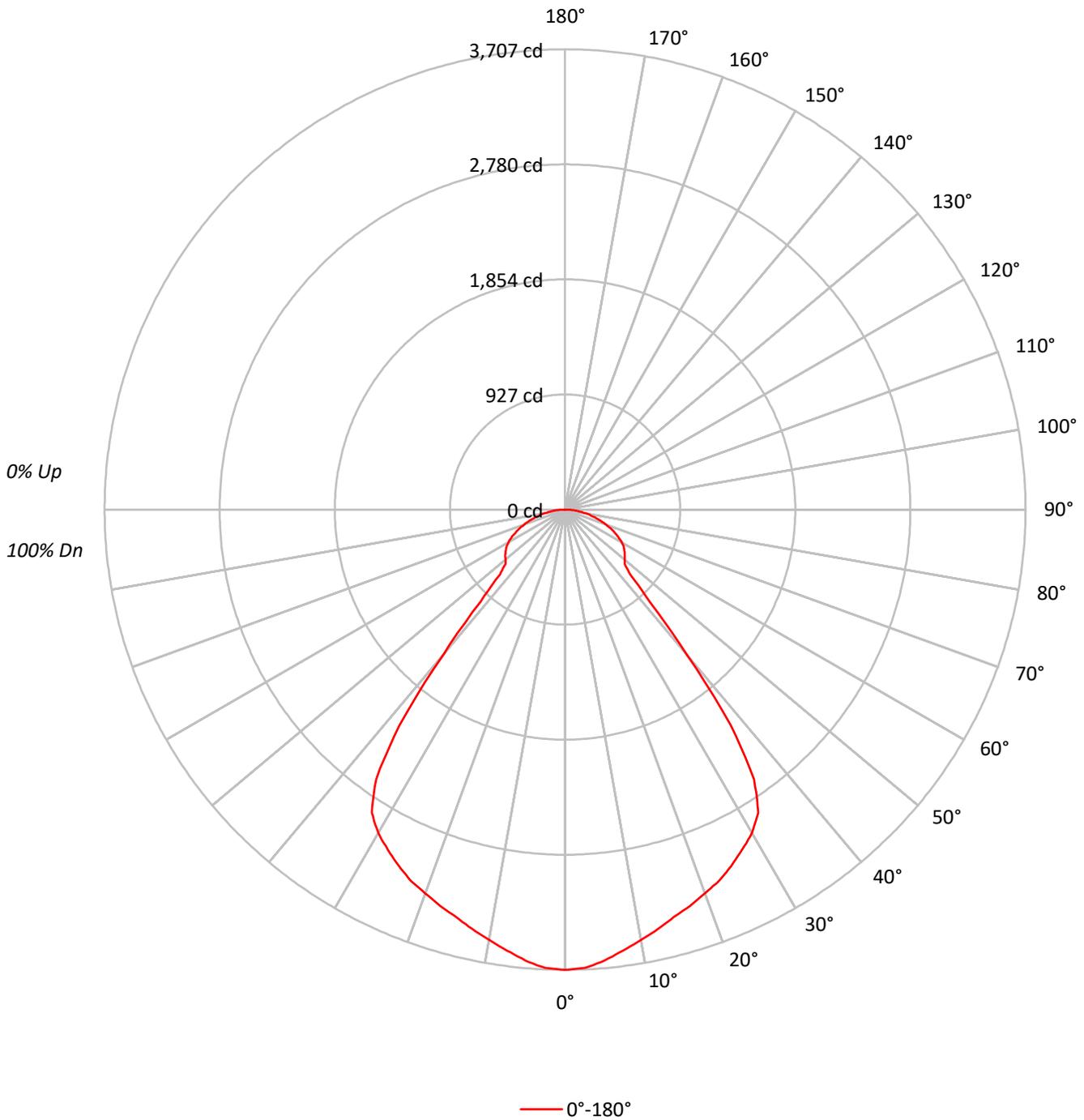
Lumens per Lamp: N/A
Luminaire Lumens: 6287.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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°	28579
5°	28213
10°	27560
15°	27100
20°	26985
25°	26934
30°	26779
35°	24978
40°	15374
45°	8083
50°	7504
55°	7838
60°	8119
65°	8055
70°	7824
75°	7455
80°	7023
85°	6475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 8121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	5.5
10°-20°	960.9	15.3
20°-30°	1458.9	23.2
30°-40°	1554.5	24.7
40°-50°	664.1	10.6
50°-60°	520.8	8.3
60°-70°	435.4	6.9
70°-80°	265.3	4.2
80°-90°	83.8	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°	2763.7	44.0
0°-40°	4318.2	68.7
0°-60°	5503.1	87.5
0°-90°	6287.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6287.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3707	
5°	3646	344
15°	3396	961
25°	3166	1459
35°	2654	1554
45°	741	664
55°	583	521
65°	442	435
75°	250	265
85°	73	84
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3707.2
2.5°	3695.4
5°	3645.8
7.5°	3582.1
10°	3520.7
12.5°	3459.3
15°	3395.5
17.5°	3345.9
20°	3289.3
22.5°	3237.3
25°	3166.5
27.5°	3088.6
30°	3008.3
32.5°	2894.9
35°	2654.1
37.5°	2193.6
40°	1527.7
42.5°	1008.3
45°	741.4
47.5°	649.4
50°	625.7
52.5°	606.8
55°	583.2
57.5°	559.6
60°	526.6
62.5°	486.4
65°	441.6
67.5°	394.3
70°	347.1
72.5°	297.5
75°	250.3
77.5°	205.4
80°	158.2
82.5°	115.7
85°	73.2
87.5°	40.1
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	17.65	18.99	18.02	19.31	19.62	17.65	18.99	18.02	19.31	19.62
	3H	19.66	20.86	20.04	21.19	21.55	19.66	20.86	20.04	21.19	21.55
	4H	20.41	21.54	20.82	21.89	22.27	20.41	21.54	20.82	21.89	22.27
	6H	21.00	22.04	21.41	22.41	22.80	21.00	22.04	21.41	22.41	22.80
	8H	21.20	22.19	21.63	22.58	22.98	21.20	22.19	21.63	22.58	22.98
	12H	21.34	22.28	21.77	22.66	23.09	21.34	22.28	21.77	22.66	23.09
4H	2H	18.32	19.45	18.72	19.80	20.18	18.32	19.45	18.72	19.80	20.18
	3H	20.52	21.46	20.93	21.86	22.27	20.52	21.46	20.93	21.86	22.27
	4H	21.41	22.25	21.84	22.67	23.11	21.41	22.25	21.84	22.67	23.11
	6H	22.12	22.86	22.58	23.30	23.77	22.12	22.86	22.58	23.30	23.77
	8H	22.37	23.06	22.84	23.50	23.97	22.37	23.06	22.84	23.50	23.97
	12H	22.56	23.17	23.04	23.65	24.12	22.56	23.17	23.04	23.65	24.12
8H	4H	21.73	22.41	22.19	22.86	23.33	21.73	22.41	22.19	22.86	23.33
	6H	22.58	23.14	23.08	23.64	24.12	22.58	23.14	23.08	23.64	24.12
	8H	22.92	23.42	23.44	23.94	24.43	22.92	23.42	23.44	23.94	24.43
	12H	23.20	23.64	23.72	24.13	24.70	23.20	23.64	23.72	24.13	24.70
12H	4H	21.76	22.36	22.24	22.84	23.32	21.76	22.36	22.24	22.84	23.32
	6H	22.65	23.15	23.17	23.66	24.15	22.65	23.15	23.17	23.66	24.15
	8H	23.05	23.49	23.56	23.98	24.55	23.05	23.49	23.56	23.98	24.55