

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: P980453

Luminaire Tested: PRLX-243-935-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-74L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

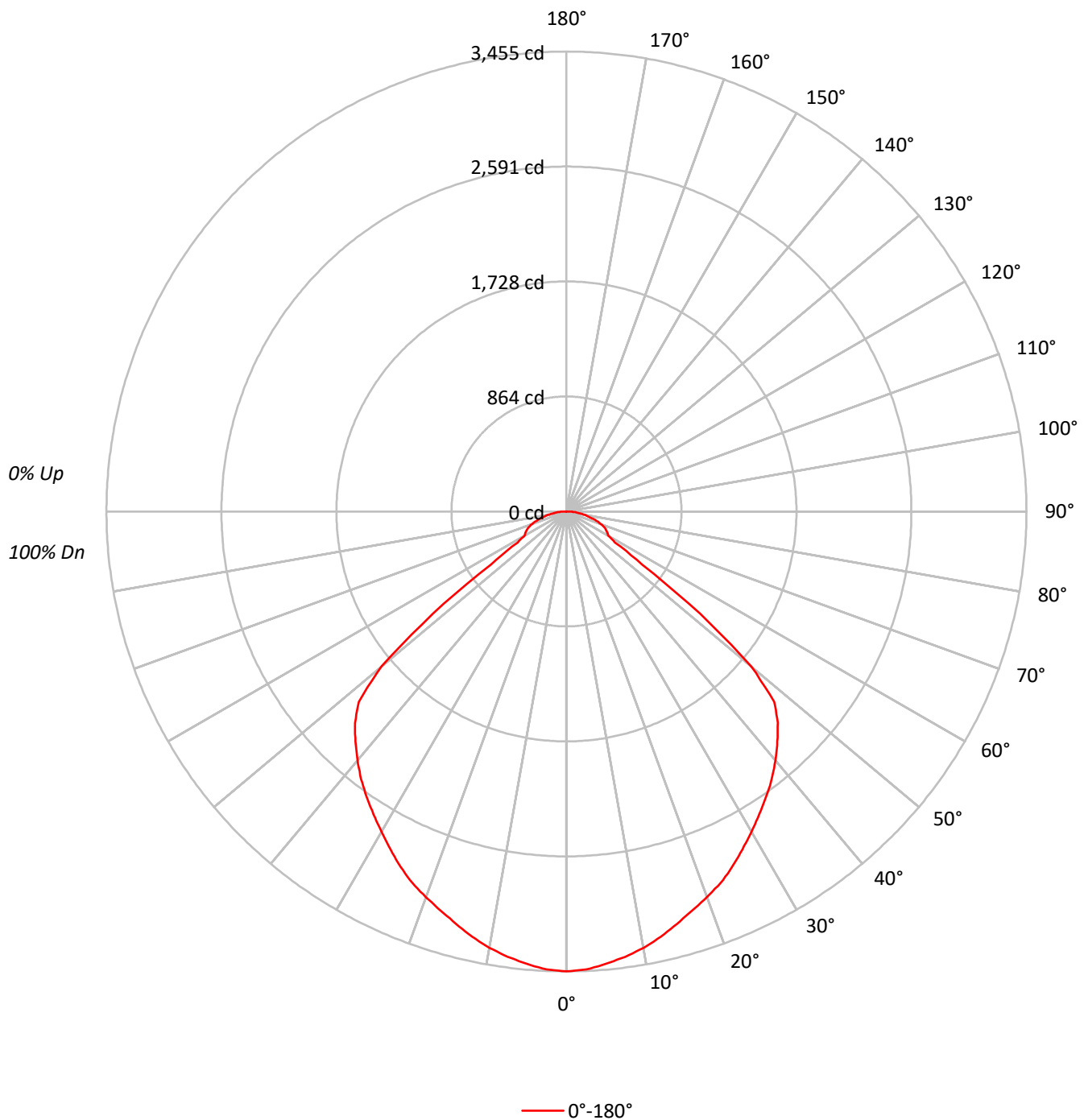
Lumens per Lamp: N/A
Luminaire Lumens: 7301.3 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P980453

CATALOG NUMBER: PRLX-243-935-74L-F-U-S-WHTE-X

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		67
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		52
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		42
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17044
5°	16899
10°	16680
15°	16379
20°	16191
25°	16043
30°	15833
35°	15758
40°	15725
45°	15669
50°	13901
55°	5952
60°	3588
65°	3832
70°	3951
75°	3826
80°	3691
85°	3742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 15669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	4.4
10°-20°	905.5	12.4
20°-30°	1356.9	18.6
30°-40°	1638.2	22.4
40°-50°	1704.2	23.3
50°-60°	766.6	10.5
60°-70°	321.7	4.4
70°-80°	212.7	2.9
80°-90°	72.3	1.0
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°	2585.6	35.4
0°-40°	4223.8	57.8
0°-60°	6694.5	91.7
0°-90°	7301.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7301.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3455	
5°	3412	323
15°	3207	906
25°	2947	1357
35°	2616	1638
45°	2246	1704
55°	692	767
65°	328	322
75°	201	213
85°	66	72
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3454.6
2.5°	3445.1
5°	3412.1
7.5°	3374.3
10°	3329.4
12.5°	3272.7
15°	3206.6
17.5°	3142.9
20°	3083.8
22.5°	3022.4
25°	2946.9
27.5°	2861.9
30°	2779.2
32.5°	2696.6
35°	2616.3
37.5°	2533.7
40°	2441.6
42.5°	2344.8
45°	2245.6
47.5°	2115.7
50°	1811.1
52.5°	1265.6
55°	691.9
57.5°	432.1
60°	363.6
62.5°	347.1
65°	328.2
67.5°	304.6
70°	273.9
72.5°	238.5
75°	200.7
77.5°	165.3
80°	129.9
82.5°	96.8
85°	66.1
87.5°	37.8
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	13.60	15.04	13.96	15.36	15.67	13.60	15.04	13.96	15.36	15.67
	3H	15.69	16.97	16.07	17.30	17.67	15.69	16.97	16.07	17.30	17.67
	4H	16.52	17.72	16.92	18.07	18.45	16.52	17.72	16.92	18.07	18.45
	6H	17.16	18.27	17.58	18.64	19.03	17.16	18.27	17.58	18.64	19.03
	8H	17.40	18.45	17.82	18.84	19.24	17.40	18.45	17.82	18.84	19.24
	12H	17.58	18.58	18.01	18.97	19.39	17.58	18.58	18.01	18.97	19.39
4H	2H	14.26	15.46	14.66	15.81	16.19	14.26	15.46	14.66	15.81	16.19
	3H	16.60	17.58	17.01	17.99	18.39	16.60	17.58	17.01	17.99	18.39
	4H	17.56	18.44	18.00	18.86	19.30	17.56	18.44	18.00	18.86	19.30
	6H	18.34	19.11	18.80	19.55	20.02	18.34	19.11	18.80	19.55	20.02
	8H	18.63	19.35	19.10	19.79	20.26	18.63	19.35	19.10	19.79	20.26
	12H	18.87	19.50	19.35	19.98	20.46	18.87	19.50	19.35	19.98	20.46
8H	4H	17.91	18.63	18.38	19.08	19.54	17.91	18.63	18.38	19.08	19.54
	6H	18.84	19.43	19.34	19.92	20.40	18.84	19.43	19.34	19.92	20.40
	8H	19.21	19.75	19.73	20.26	20.75	19.21	19.75	19.73	20.26	20.75
	12H	19.55	20.03	20.06	20.52	21.09	19.55	20.03	20.06	20.52	21.09
12H	4H	17.95	18.59	18.44	19.07	19.54	17.95	18.59	18.44	19.07	19.54
	6H	18.91	19.45	19.43	19.96	20.45	18.91	19.45	19.43	19.96	20.45
	8H	19.35	19.83	19.86	20.33	20.89	19.35	19.83	19.86	20.33	20.89