

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: P980533

Luminaire Tested: PRLX-243-940-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980533
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-243-940-74L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

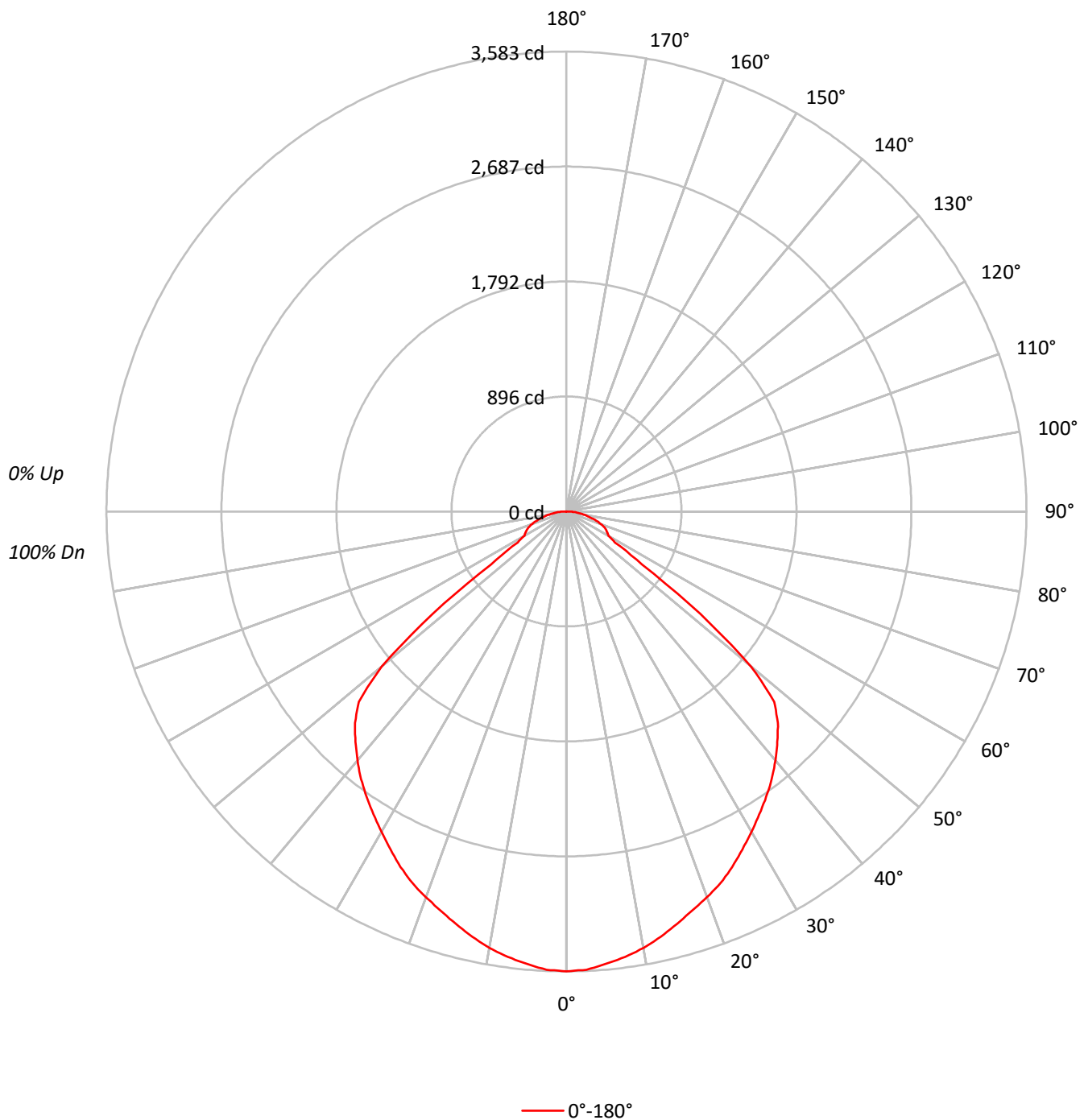
Lumens per Lamp: N/A
Luminaire Lumens: 7572.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17678
5°	17527
10°	17300
15°	16988
20°	16794
25°	16639
30°	16422
35°	16344
40°	16310
45°	16251
50°	14418
55°	6173
60°	3722
65°	3974
70°	4098
75°	3969
80°	3827
85°	3883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 16251 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	4.4
10°-20°	939.2	12.4
20°-30°	1407.4	18.6
30°-40°	1699.1	22.4
40°-50°	1767.5	23.3
50°-60°	795.1	10.5
60°-70°	333.7	4.4
70°-80°	220.6	2.9
80°-90°	75.0	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°	2681.7	35.4
0°-40°	4380.7	57.8
0°-60°	6943.3	91.7
0°-90°	7572.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7572.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3583	
5°	3539	335
15°	3326	939
25°	3056	1407
35°	2714	1699
45°	2329	1767
55°	718	795
65°	340	334
75°	208	221
85°	69	75
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3583.0
2.5°	3573.2
5°	3538.9
7.5°	3499.7
10°	3453.2
12.5°	3394.4
15°	3325.8
17.5°	3259.7
20°	3198.5
22.5°	3134.8
25°	3056.4
27.5°	2968.2
30°	2882.5
32.5°	2796.8
35°	2713.5
37.5°	2627.8
40°	2532.3
42.5°	2431.9
45°	2329.0
47.5°	2194.3
50°	1878.4
52.5°	1312.7
55°	717.6
57.5°	448.2
60°	377.2
62.5°	360.0
65°	340.4
67.5°	315.9
70°	284.1
72.5°	247.4
75°	208.2
77.5°	171.4
80°	134.7
82.5°	100.4
85°	68.6
87.5°	39.2
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	13.72	15.17	14.09	15.48	15.80	13.72	15.17	14.09	15.48	15.80
	3H	15.81	17.10	16.19	17.43	17.79	15.81	17.10	16.19	17.43	17.79
	4H	16.64	17.84	17.04	18.19	18.57	16.64	17.84	17.04	18.19	18.57
	6H	17.29	18.40	17.70	18.76	19.16	17.29	18.40	17.70	18.76	19.16
	8H	17.52	18.57	17.95	18.96	19.37	17.52	18.57	17.95	18.96	19.37
	12H	17.70	18.71	18.14	19.09	19.52	17.70	18.71	18.14	19.09	19.52
4H	2H	14.39	15.59	14.79	15.94	16.32	14.39	15.59	14.79	15.94	16.32
	3H	16.73	17.71	17.14	18.11	18.51	16.73	17.71	17.14	18.11	18.51
	4H	17.69	18.57	18.12	18.99	19.43	17.69	18.57	18.12	18.99	19.43
	6H	18.47	19.24	18.93	19.68	20.14	18.47	19.24	18.93	19.68	20.14
	8H	18.76	19.47	19.22	19.92	20.39	18.76	19.47	19.22	19.92	20.39
	12H	18.99	19.63	19.48	20.11	20.58	18.99	19.63	19.48	20.11	20.58
8H	4H	18.04	18.76	18.51	19.20	19.67	18.04	18.76	18.51	19.20	19.67
	6H	18.96	19.56	19.46	20.05	20.53	18.96	19.56	19.46	20.05	20.53
	8H	19.34	19.88	19.86	20.39	20.88	19.34	19.88	19.86	20.39	20.88
	12H	19.68	20.16	20.19	20.65	21.22	19.68	20.16	20.19	20.65	21.22
12H	4H	18.08	18.72	18.56	19.20	19.67	18.08	18.72	18.56	19.20	19.67
	6H	19.04	19.57	19.55	20.08	20.57	19.04	19.57	19.55	20.08	20.57
	8H	19.48	19.96	19.99	20.45	21.02	19.48	19.96	19.99	20.45	21.02