

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: P980263

Luminaire Tested: PRLX-243-927-43L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980263
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-243-927-43L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

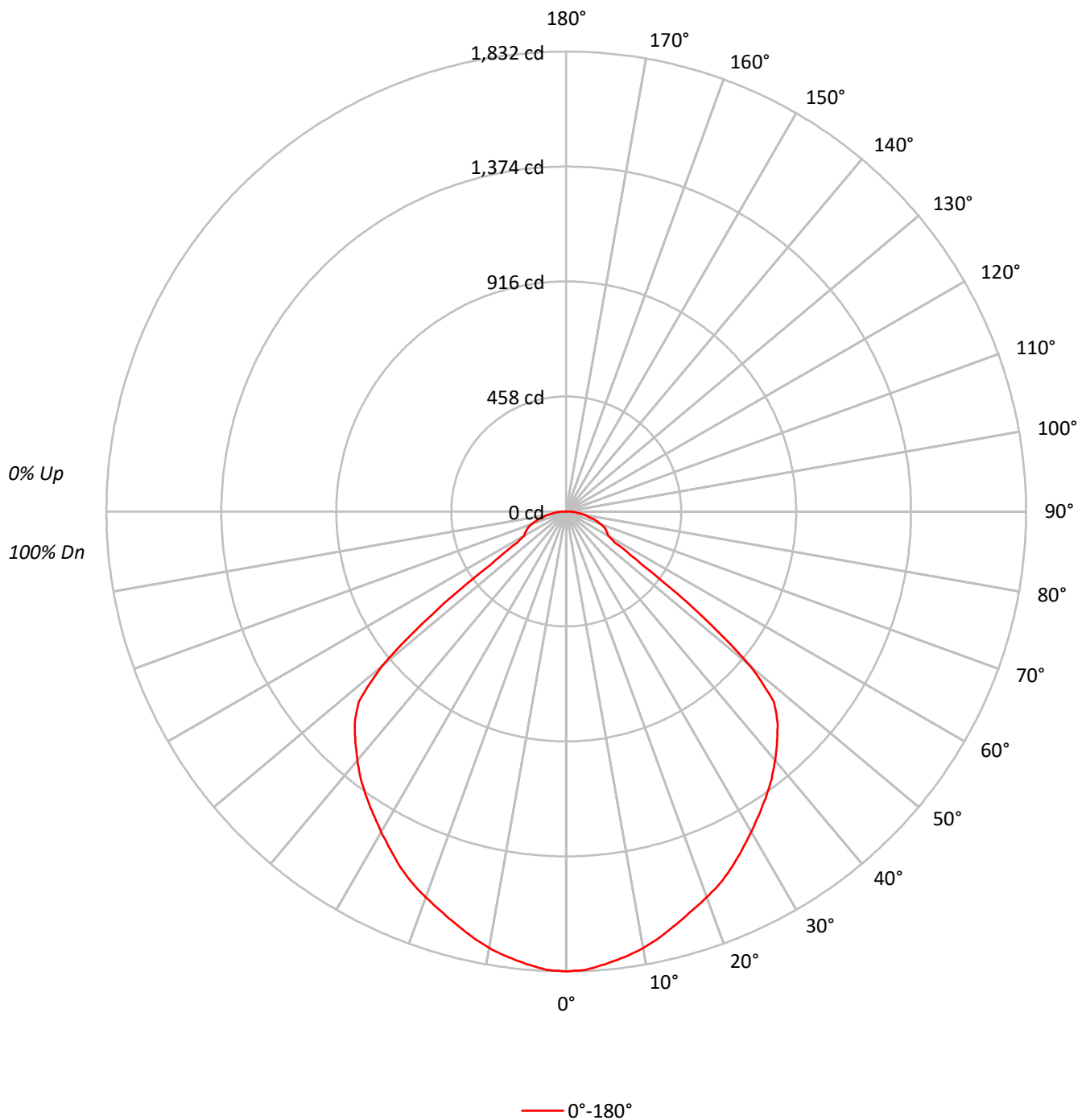
Lumens per Lamp: N/A
Luminaire Lumens: 3872.6 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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: P980263

CATALOG NUMBER: PRLX-243-927-43L-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		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°	9040
5°	8963
10°	8847
15°	8687
20°	8588
25°	8509
30°	8398
35°	8358
40°	8341
45°	8310
50°	7373
55°	3157
60°	1903
65°	2033
70°	2096
75°	2030
80°	1958
85°	1987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8310 cd/sqm

TEST NUMBER: P980263

CATALOG NUMBER: PRLX-243-927-43L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	4.4
10°-20°	480.3	12.4
20°-30°	719.7	18.6
30°-40°	868.9	22.4
40°-50°	903.9	23.3
50°-60°	406.6	10.5
60°-70°	170.7	4.4
70°-80°	112.8	2.9
80°-90°	38.3	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°	1371.4	35.4
0°-40°	2240.3	57.8
0°-60°	3550.7	91.7
0°-90°	3872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1832	
5°	1810	171
15°	1701	480
25°	1563	720
35°	1388	869
45°	1191	904
55°	367	407
65°	174	171
75°	106	113
85°	35	38
90°	0	

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CATALOG NUMBER: PRLX-243-927-43L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1832.3
2.5°	1827.3
5°	1809.7
7.5°	1789.7
10°	1765.9
12.5°	1735.8
15°	1700.8
17.5°	1667.0
20°	1635.6
22.5°	1603.1
25°	1563.0
27.5°	1517.9
30°	1474.1
32.5°	1430.2
35°	1387.7
37.5°	1343.8
40°	1295.0
42.5°	1243.6
45°	1191.0
47.5°	1122.2
50°	960.6
52.5°	671.3
55°	367.0
57.5°	229.2
60°	192.9
62.5°	184.1
65°	174.1
67.5°	161.6
70°	145.3
72.5°	126.5
75°	106.5
77.5°	87.7
80°	68.9
82.5°	51.3
85°	35.1
87.5°	20.0
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	11.39	12.84	11.76	13.15	13.47	11.39	12.84	11.76	13.15	13.47
	3H	13.49	14.77	13.86	15.10	15.46	13.49	14.77	13.86	15.10	15.46
	4H	14.31	15.51	14.71	15.86	16.24	14.31	15.51	14.71	15.86	16.24
	6H	14.96	16.07	15.37	16.43	16.83	14.96	16.07	15.37	16.43	16.83
	8H	15.19	16.24	15.62	16.63	17.04	15.19	16.24	15.62	16.63	17.04
	12H	15.38	16.38	15.81	16.76	17.19	15.38	16.38	15.81	16.76	17.19
4H	2H	12.06	13.26	12.46	13.61	13.99	12.06	13.26	12.46	13.61	13.99
	3H	14.40	15.38	14.81	15.78	16.19	14.40	15.38	14.81	15.78	16.19
	4H	15.36	16.24	15.79	16.66	17.10	15.36	16.24	15.79	16.66	17.10
	6H	16.14	16.91	16.60	17.35	17.81	16.14	16.91	16.60	17.35	17.81
	8H	16.43	17.14	16.89	17.59	18.06	16.43	17.14	16.89	17.59	18.06
	12H	16.66	17.30	17.15	17.78	18.25	16.66	17.30	17.15	17.78	18.25
8H	4H	15.71	16.43	16.18	16.87	17.34	15.71	16.43	16.18	16.87	17.34
	6H	16.64	17.23	17.13	17.72	18.20	16.64	17.23	17.13	17.72	18.20
	8H	17.01	17.55	17.53	18.06	18.55	17.01	17.55	17.53	18.06	18.55
	12H	17.35	17.83	17.86	18.32	18.89	17.35	17.83	17.86	18.32	18.89
12H	4H	15.75	16.39	16.23	16.87	17.34	15.75	16.39	16.23	16.87	17.34
	6H	16.71	17.24	17.22	17.76	18.25	16.71	17.24	17.22	17.76	18.25
	8H	17.15	17.63	17.66	18.12	18.69	17.15	17.63	17.66	18.12	18.69