

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: P980002

Luminaire Tested: PRLX-242-930-23L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-23L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

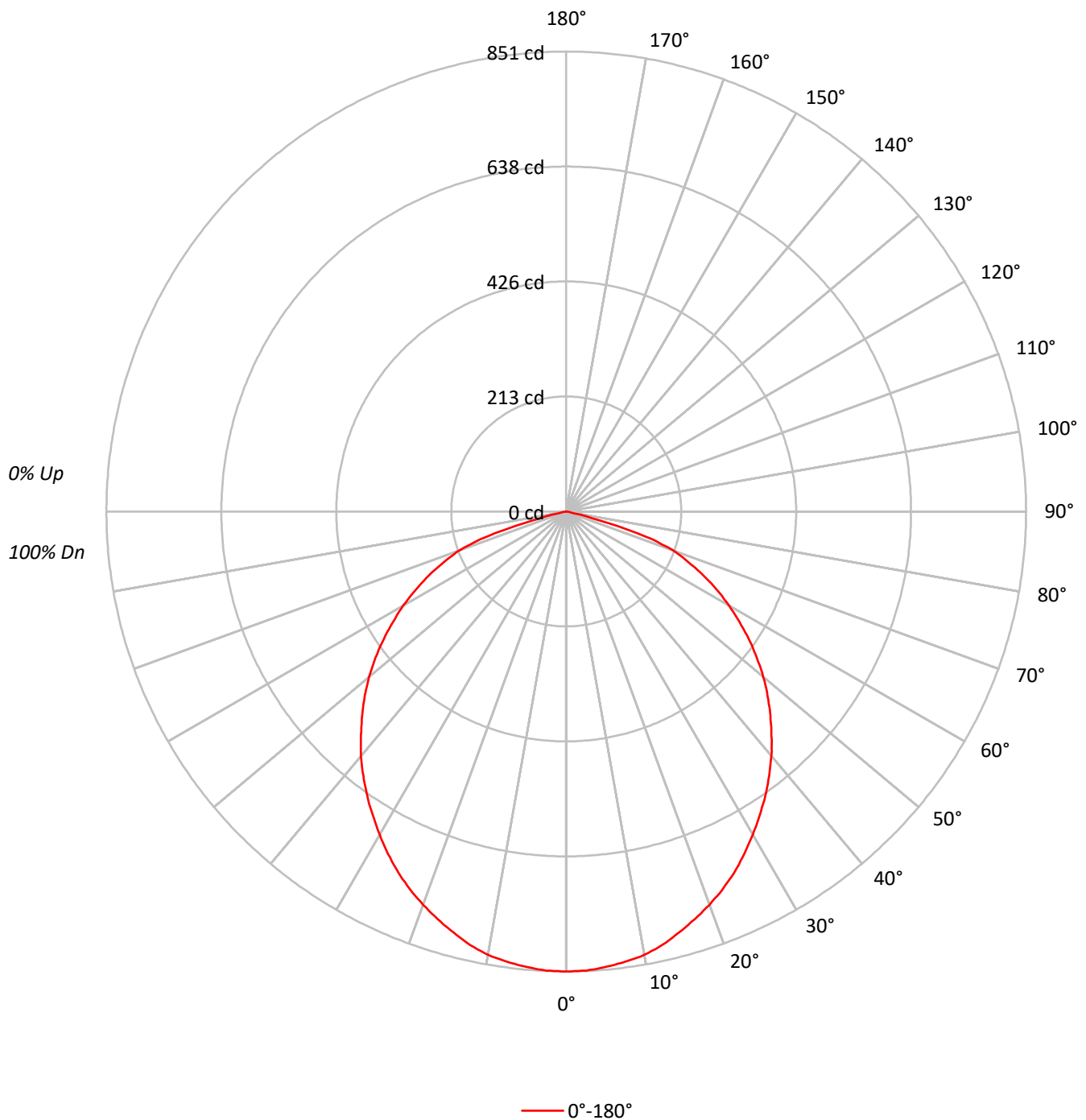
Lumens per Lamp: N/A
Luminaire Lumens: 2191.9 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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: P980002

CATALOG NUMBER: PRLX-242-930-23L-F-U-S-BLAK-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	30	10	0		
R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46		
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3809
5°	3801
10°	3787
15°	3737
20°	3688
25°	3637
30°	3569
35°	3510
40°	3452
45°	3381
50°	3315
55°	3222
60°	3113
65°	2969
70°	2749
75°	1079
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Luminance: 3381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.7
10°-20°	227.6	10.4
20°-30°	339.0	15.5
30°-40°	401.8	18.3
40°-50°	412.3	18.8
50°-60°	368.9	16.8
60°-70°	276.7	12.6
70°-80°	85.2	3.9
80°-90°	0.0	0.0
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°	647.0	29.5
0°-40°	1048.8	47.8
0°-60°	1829.9	83.5
0°-90°	2191.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	851	
5°	846	80
15°	807	228
25°	736	339
35°	642	402
45°	534	412
55°	413	369
65°	280	277
75°	62	85
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	851.2
2.5°	850.5
5°	846.2
7.5°	840.4
10°	833.3
12.5°	821.8
15°	806.7
17.5°	791.0
20°	774.5
22.5°	756.5
25°	736.5
27.5°	714.2
30°	690.6
32.5°	666.2
35°	642.5
37.5°	616.7
40°	590.9
42.5°	562.2
45°	534.2
47.5°	505.6
50°	476.2
52.5°	444.6
55°	413.0
57.5°	380.1
60°	347.8
62.5°	314.1
65°	280.4
67.5°	245.2
70°	210.1
72.5°	155.6
75°	62.4
77.5°	2.9
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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	16.40	17.99	16.77	18.31	18.62	16.40	17.99	16.77	18.31	18.62
	3H	18.15	19.58	18.53	19.91	20.27	18.15	19.58	18.53	19.91	20.27
	4H	18.35	19.69	18.75	20.04	20.41	18.35	19.69	18.75	20.04	20.41
	6H	18.29	19.52	18.70	19.89	20.28	18.29	19.52	18.70	19.89	20.28
	8H	18.26	19.43	18.68	19.82	20.22	18.26	19.43	18.68	19.82	20.22
	12H	18.23	19.35	18.66	19.73	20.16	18.23	19.35	18.66	19.73	20.16
4H	2H	17.04	18.38	17.44	18.72	19.10	17.04	18.38	17.44	18.72	19.10
	3H	18.95	20.06	19.36	20.46	20.86	18.95	20.06	19.36	20.46	20.86
	4H	19.13	20.13	19.57	20.54	20.98	19.13	20.13	19.57	20.54	20.98
	6H	19.08	19.94	19.54	20.38	20.84	19.08	19.94	19.54	20.38	20.84
	8H	19.04	19.85	19.51	20.29	20.76	19.04	19.85	19.51	20.29	20.76
	12H	19.02	19.73	19.50	20.21	20.68	19.02	19.73	19.50	20.21	20.68
8H	4H	19.17	19.97	19.63	20.42	20.88	19.17	19.97	19.63	20.42	20.88
	6H	19.10	19.76	19.60	20.25	20.72	19.10	19.76	19.60	20.25	20.72
	8H	19.06	19.64	19.57	20.15	20.64	19.06	19.64	19.57	20.15	20.64
	12H	19.03	19.55	19.54	20.04	20.60	19.03	19.55	19.54	20.04	20.60
12H	4H	19.14	19.86	19.63	20.34	20.81	19.14	19.86	19.63	20.34	20.81
	6H	19.06	19.64	19.57	20.15	20.64	19.06	19.64	19.57	20.15	20.64
	8H	19.03	19.55	19.54	20.04	20.60	19.03	19.55	19.54	20.04	20.60

END OF REPORT