

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: P980110

Luminaire Tested: PRLX-242-935-LL6-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-LL6-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

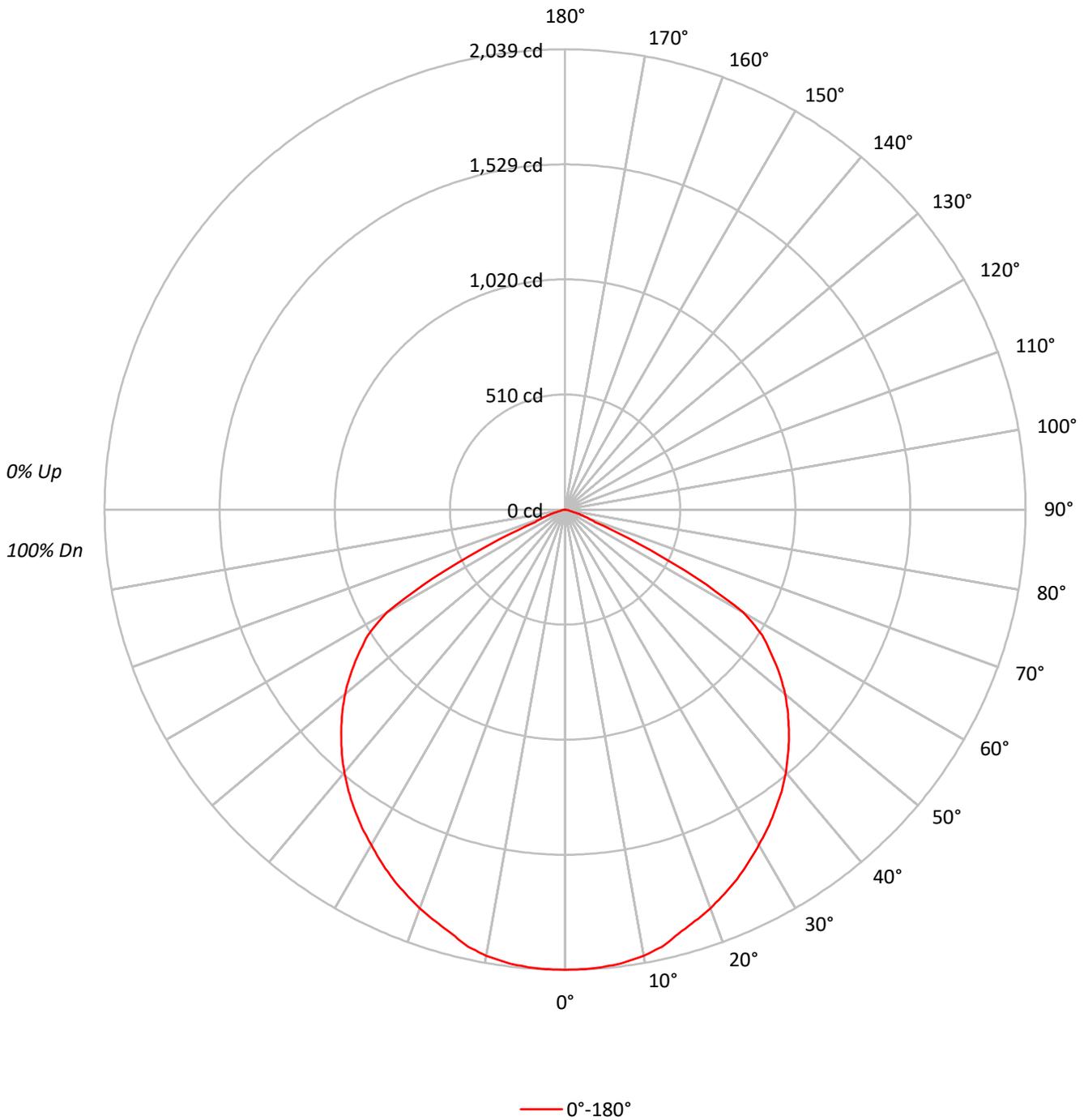
Lumens per Lamp: N/A
Luminaire Lumens: 5109.5 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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: P980110
CATALOG NUMBER: PRLX-242-935-LL6-C-U-S-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P980110

CATALOG NUMBER: PRLX-242-935-LL6-C-U-S-BLAK-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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					100															
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76															
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65					65															
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56					56															
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49															
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43					43															
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38															
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34					34															
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30															
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27					27															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9124
5°	9132
10°	9119
15°	9007
20°	8953
25°	8913
30°	8869
35°	8868
40°	8884
45°	8870
50°	8854
55°	8706
60°	8153
65°	3804
70°	1280
75°	396
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8870 cd/sqm

TEST NUMBER: P980110

CATALOG NUMBER: PRLX-242-935-LL6-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	3.8
10°-20°	549.7	10.8
20°-30°	831.8	16.3
30°-40°	1016.6	19.9
40°-50°	1081.5	21.2
50°-60°	992.6	19.4
60°-70°	407.3	8.0
70°-80°	36.7	0.7
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°	1574.7	30.8
0°-40°	2591.3	50.7
0°-60°	4665.4	91.3
0°-90°	5109.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5109.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2039	
5°	2033	193
15°	1944	550
25°	1805	832
35°	1623	1017
45°	1402	1081
55°	1116	993
65°	359	407
75°	23	37
85°	0	0
90°	0	



TEST NUMBER: P980110

CATALOG NUMBER: PRLX-242-935-LL6-C-U-S-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2038.9
2.5°	2037.4
5°	2032.8
7.5°	2023.6
10°	2006.8
12.5°	1983.9
15°	1944.2
17.5°	1912.1
20°	1880.0
22.5°	1843.3
25°	1805.1
27.5°	1760.8
30°	1716.4
32.5°	1672.1
35°	1623.2
37.5°	1574.3
40°	1520.8
42.5°	1462.7
45°	1401.6
47.5°	1338.9
50°	1271.7
52.5°	1196.8
55°	1115.8
57.5°	1034.8
60°	910.9
62.5°	657.2
65°	359.2
67.5°	143.7
70°	97.8
72.5°	67.3
75°	22.9
77.5°	1.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



TEST NUMBER: P980110
 CATALOG NUMBER: PRLX-242-935-LL6-C-U-S-BLAK-X

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	20.47	22.01	20.84	22.32	22.64	20.47	22.01	20.84	22.32	22.64
	3H	20.46	21.82	20.83	22.15	22.51	20.46	21.82	20.83	22.15	22.51
	4H	20.41	21.68	20.81	22.03	22.41	20.41	21.68	20.81	22.03	22.41
	6H	20.34	21.51	20.76	21.88	22.27	20.34	21.51	20.76	21.88	22.27
	8H	20.31	21.42	20.74	21.81	22.21	20.31	21.42	20.74	21.81	22.21
	12H	20.28	21.34	20.71	21.72	22.15	20.28	21.34	20.71	21.72	22.15
4H	2H	20.53	21.80	20.93	22.15	22.53	20.53	21.80	20.93	22.15	22.53
	3H	20.54	21.57	20.95	21.97	22.38	20.54	21.57	20.95	21.97	22.38
	4H	20.48	21.40	20.91	21.82	22.26	20.48	21.40	20.91	21.82	22.26
	6H	20.42	21.21	20.88	21.66	22.12	20.42	21.21	20.88	21.66	22.12
	8H	20.38	21.12	20.84	21.56	22.03	20.38	21.12	20.84	21.56	22.03
	12H	20.34	21.00	20.82	21.48	21.95	20.34	21.00	20.82	21.48	21.95
8H	4H	20.38	21.12	20.85	21.57	22.04	20.38	21.12	20.85	21.57	22.04
	6H	20.30	20.90	20.80	21.40	21.88	20.30	20.90	20.80	21.40	21.88
	8H	20.24	20.79	20.76	21.30	21.79	20.24	20.79	20.76	21.30	21.79
	12H	20.20	20.69	20.72	21.18	21.75	20.20	20.69	20.72	21.18	21.75
12H	4H	20.35	21.01	20.83	21.49	21.96	20.35	21.01	20.83	21.49	21.96
	6H	20.24	20.79	20.76	21.30	21.79	20.24	20.79	20.76	21.30	21.79
	8H	20.20	20.69	20.72	21.18	21.75	20.20	20.69	20.72	21.18	21.75