

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: P980032

Luminaire Tested: PRLX-242-930-LL6-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980032  
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-LL6-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**

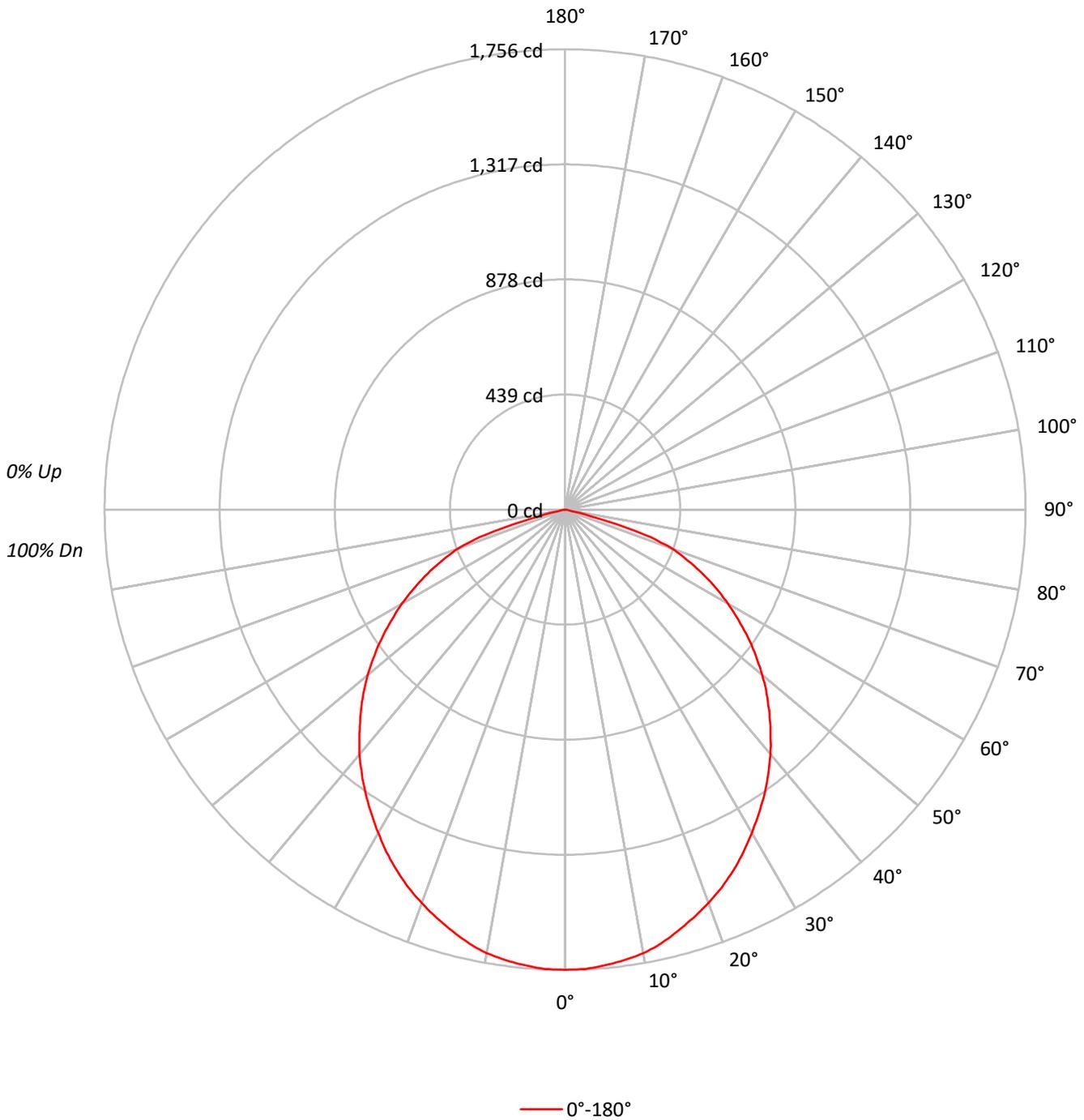
Lumens per Lamp: N/A  
Luminaire Lumens: 4522.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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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	0
RW	70	50	30	10	70	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
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°	7859
5°	7842
10°	7812
15°	7711
20°	7609
25°	7502
30°	7362
35°	7242
40°	7121
45°	6976
50°	6839
55°	6648
60°	6422
65°	6126
70°	5672
75°	2225
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6976 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	3.7
10°-20°	469.5	10.4
20°-30°	699.5	15.5
30°-40°	828.9	18.3
40°-50°	850.5	18.8
50°-60°	761.1	16.8
60°-70°	570.9	12.6
70°-80°	175.8	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°	1334.7	29.5
0°-40°	2163.7	47.8
0°-60°	3775.2	83.5
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1756	
5°	1746	166
15°	1664	469
25°	1519	699
35°	1326	829
45°	1102	851
55°	852	761
65°	578	571
75°	129	176
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1756.1
2.5°	1754.6
5°	1745.7
7.5°	1733.9
10°	1719.1
12.5°	1695.4
15°	1664.3
17.5°	1631.8
20°	1597.8
22.5°	1560.8
25°	1519.4
27.5°	1473.5
30°	1424.7
32.5°	1374.4
35°	1325.6
37.5°	1272.3
40°	1219.0
42.5°	1159.9
45°	1102.2
47.5°	1043.0
50°	982.3
52.5°	917.2
55°	852.1
57.5°	784.1
60°	717.5
62.5°	648.0
65°	578.5
67.5°	506.0
70°	433.5
72.5°	321.0
75°	128.7
77.5°	5.9
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	18.92	20.51	19.28	20.82	21.14	18.92	20.51	19.28	20.82	21.14
	3H	20.67	22.10	21.04	22.42	22.78	20.67	22.10	21.04	22.42	22.78
	4H	20.86	22.20	21.26	22.55	22.93	20.86	22.20	21.26	22.55	22.93
	6H	20.80	22.04	21.22	22.41	22.80	20.80	22.04	21.22	22.41	22.80
	8H	20.77	21.95	21.20	22.34	22.74	20.77	21.95	21.20	22.34	22.74
	12H	20.74	21.87	21.17	22.25	22.68	20.74	21.87	21.17	22.25	22.68
4H	2H	19.55	20.89	19.95	21.24	21.62	19.55	20.89	19.95	21.24	21.62
	3H	21.47	22.58	21.88	22.98	23.38	21.47	22.58	21.88	22.98	23.38
	4H	21.65	22.64	22.08	23.06	23.50	21.65	22.64	22.08	23.06	23.50
	6H	21.60	22.46	22.05	22.90	23.36	21.60	22.46	22.05	22.90	23.36
	8H	21.56	22.36	22.02	22.81	23.27	21.56	22.36	22.02	22.81	23.27
	12H	21.53	22.25	22.02	22.73	23.20	21.53	22.25	22.02	22.73	23.20
8H	4H	21.69	22.49	22.15	22.93	23.40	21.69	22.49	22.15	22.93	23.40
	6H	21.62	22.27	22.11	22.76	23.24	21.62	22.27	22.11	22.76	23.24
	8H	21.57	22.16	22.09	22.67	23.16	21.57	22.16	22.09	22.67	23.16
	12H	21.55	22.06	22.06	22.55	23.12	21.55	22.06	22.06	22.55	23.12
12H	4H	21.66	22.37	22.14	22.85	23.32	21.66	22.37	22.14	22.85	23.32
	6H	21.57	22.16	22.09	22.67	23.15	21.57	22.16	22.09	22.67	23.15
	8H	21.55	22.06	22.06	22.55	23.12	21.55	22.06	22.06	22.55	23.12