

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: P980030

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980030
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-242-930-LL6-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

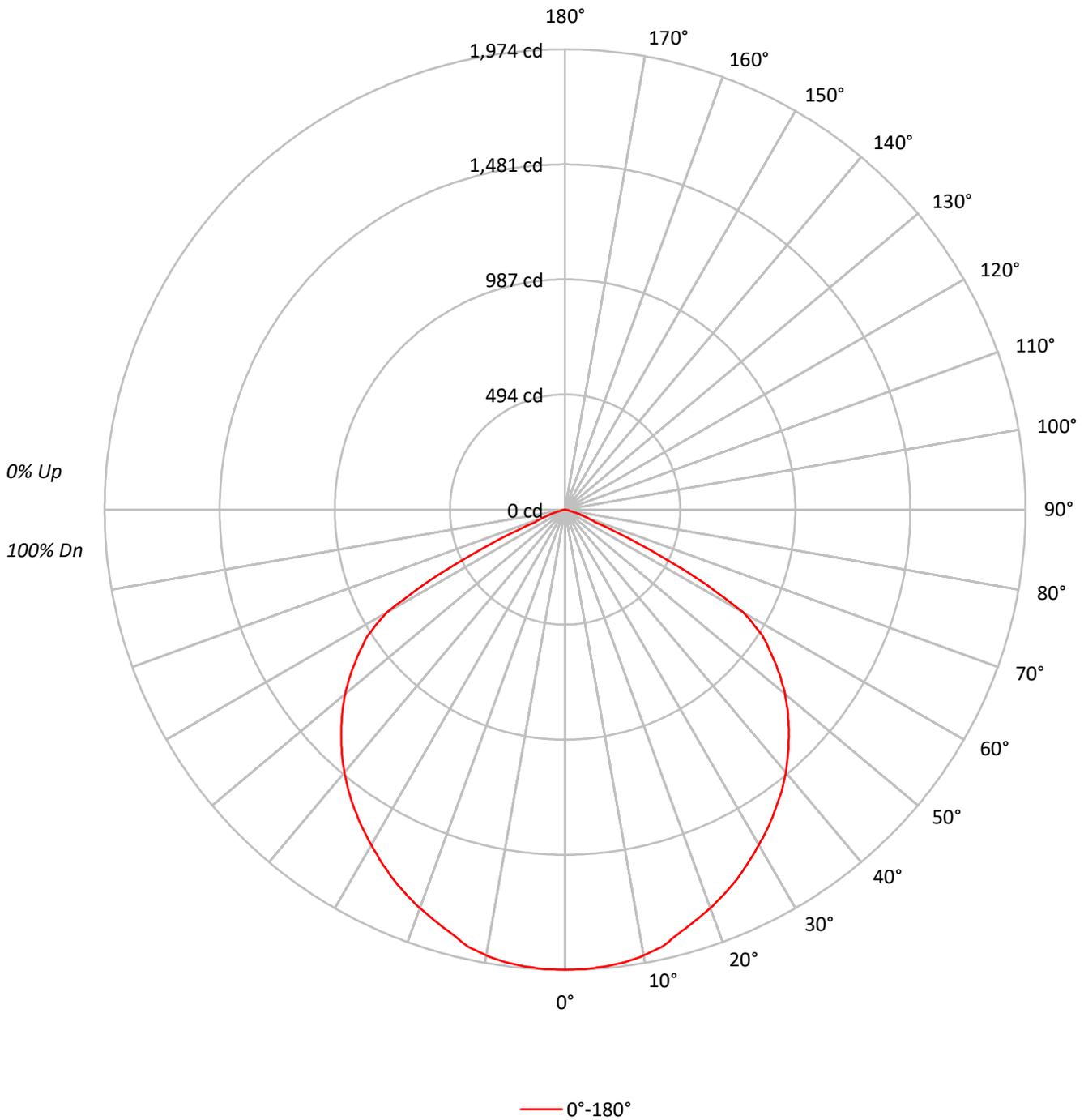
Lumens per Lamp: N/A
Luminaire Lumens: 4945.6 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	8832
5°	8839
10°	8827
15°	8718
20°	8666
25°	8627
30°	8585
35°	8583
40°	8599
45°	8586
50°	8570
55°	8426
60°	7891
65°	3682
70°	1239
75°	384
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.8
10°-20°	532.0	10.8
20°-30°	805.1	16.3
30°-40°	984.0	19.9
40°-50°	1046.8	21.2
50°-60°	960.8	19.4
60°-70°	394.3	8.0
70°-80°	35.6	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°	1524.2	30.8
0°-40°	2508.2	50.7
0°-60°	4515.7	91.3
0°-90°	4945.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4945.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1974	
5°	1968	187
15°	1882	532
25°	1747	805
35°	1571	984
45°	1357	1047
55°	1080	961
65°	348	394
75°	22	36
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1973.5
2.5°	1972.1
5°	1967.6
7.5°	1958.8
10°	1942.5
12.5°	1920.3
15°	1881.8
17.5°	1850.8
20°	1819.7
22.5°	1784.2
25°	1747.2
27.5°	1704.3
30°	1661.4
32.5°	1618.5
35°	1571.1
37.5°	1523.8
40°	1472.0
42.5°	1415.8
45°	1356.6
47.5°	1296.0
50°	1230.9
52.5°	1158.4
55°	1080.0
57.5°	1001.6
60°	881.7
62.5°	636.2
65°	347.7
67.5°	139.1
70°	94.7
72.5°	65.1
75°	22.2
77.5°	1.5
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	20.36	21.90	20.72	22.21	22.52	20.36	21.90	20.72	22.21	22.52
	3H	20.34	21.71	20.72	22.03	22.40	20.34	21.71	20.72	22.03	22.40
	4H	20.29	21.56	20.69	21.91	22.29	20.29	21.56	20.69	21.91	22.29
	6H	20.23	21.40	20.64	21.77	22.16	20.23	21.40	20.64	21.77	22.16
	8H	20.20	21.31	20.62	21.70	22.10	20.20	21.31	20.62	21.70	22.10
	12H	20.16	21.22	20.59	21.61	22.04	20.16	21.22	20.59	21.61	22.04
4H	2H	20.41	21.69	20.81	22.03	22.41	20.41	21.69	20.81	22.03	22.41
	3H	20.43	21.46	20.84	21.86	22.26	20.43	21.46	20.84	21.86	22.26
	4H	20.37	21.29	20.80	21.71	22.14	20.37	21.29	20.80	21.71	22.14
	6H	20.31	21.10	20.77	21.55	22.01	20.31	21.10	20.77	21.55	22.01
	8H	20.26	21.00	20.73	21.45	21.92	20.26	21.00	20.73	21.45	21.92
	12H	20.23	20.89	20.71	21.37	21.84	20.23	20.89	20.71	21.37	21.84
8H	4H	20.27	21.01	20.73	21.45	21.92	20.27	21.01	20.73	21.45	21.92
	6H	20.18	20.79	20.68	21.28	21.76	20.18	20.79	20.68	21.28	21.76
	8H	20.13	20.68	20.65	21.19	21.68	20.13	20.68	20.65	21.19	21.68
	12H	20.09	20.58	20.60	21.07	21.64	20.09	20.58	20.60	21.07	21.64
12H	4H	20.23	20.89	20.72	21.37	21.84	20.23	20.89	20.72	21.37	21.84
	6H	20.13	20.68	20.64	21.19	21.68	20.13	20.68	20.64	21.19	21.68
	8H	20.09	20.58	20.60	21.07	21.64	20.09	20.58	20.60	21.07	21.64