

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: P979380

Luminaire Tested: PRLX-240-930-LL5-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-LL5-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

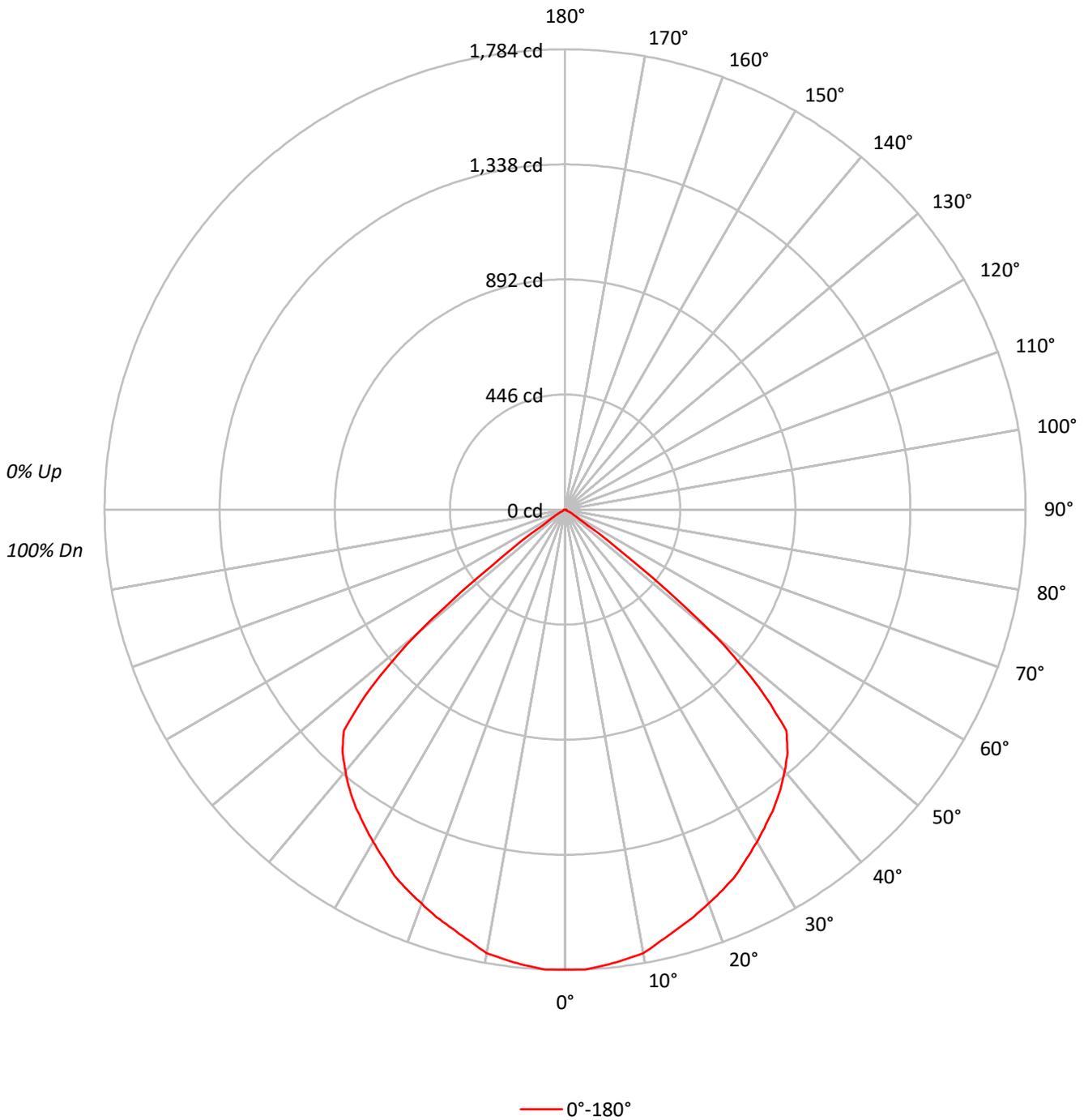
Lumens per Lamp: N/A
Luminaire Lumens: 3330.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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



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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	112	109	106	103	110	107	104	102	103	100	99		99	97	96		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	37		47	41	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17954
5°	17929
10°	17851
15°	17536
20°	17413
25°	17391
30°	17289
35°	17349
40°	17399
45°	17261
50°	11813
55°	1841
60°	455
65°	95
70°	118
75°	156
80°	232
85°	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	5.1
10°-20°	475.7	14.3
20°-30°	720.4	21.6
30°-40°	883.1	26.5
40°-50°	874.3	26.3
50°-60°	195.0	5.9
60°-70°	7.2	0.2
70°-80°	4.2	0.1
80°-90°	2.0	0.1
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°	1364.4	41.0
0°-40°	2247.5	67.5
0°-60°	3316.8	99.6
0°-90°	3330.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1783	
5°	1774	168
15°	1682	476
25°	1565	720
35°	1411	883
45°	1212	874
55°	105	195
65°	4	7
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1783.1
2.5°	1784.4
5°	1773.8
7.5°	1760.5
10°	1745.9
12.5°	1712.7
15°	1682.2
17.5°	1655.7
20°	1625.1
22.5°	1595.9
25°	1565.4
27.5°	1524.2
30°	1487.0
32.5°	1448.5
35°	1411.4
37.5°	1370.2
40°	1323.7
42.5°	1275.9
45°	1212.2
47.5°	1018.4
50°	754.1
52.5°	351.8
55°	104.9
57.5°	50.5
60°	22.6
62.5°	8.0
65°	4.0
67.5°	4.0
70°	4.0
72.5°	4.0
75°	4.0
77.5°	4.0
80°	4.0
82.5°	2.7
85°	1.3
87.5°	1.3
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	3.86	5.16	4.23	5.47	5.79	3.86	5.16	4.23	5.47	5.79
	3H	3.77	4.91	4.15	5.24	5.60	3.77	4.91	4.15	5.24	5.60
	4H	3.75	4.80	4.15	5.15	5.54	3.75	4.80	4.15	5.15	5.54
	6H	3.77	4.73	4.18	5.10	5.50	3.77	4.73	4.18	5.10	5.50
	8H	3.78	4.69	4.21	5.08	5.48	3.78	4.69	4.21	5.08	5.48
	12H	3.76	4.63	4.19	5.01	5.44	3.76	4.63	4.19	5.01	5.44
4H	2H	3.66	4.72	4.07	5.07	5.45	3.66	4.72	4.07	5.07	5.45
	3H	3.60	4.44	4.01	4.85	5.25	3.60	4.44	4.01	4.85	5.25
	4H	3.59	4.34	4.03	4.76	5.21	3.59	4.34	4.03	4.76	5.21
	6H	3.69	4.33	4.15	4.78	5.25	3.69	4.33	4.15	4.78	5.25
	8H	3.72	4.32	4.19	4.77	5.24	3.72	4.32	4.19	4.77	5.24
	12H	3.72	4.25	4.21	4.73	5.21	3.72	4.25	4.21	4.73	5.21
8H	4H	3.51	4.11	3.98	4.55	5.03	3.51	4.11	3.98	4.55	5.03
	6H	3.65	4.14	4.15	4.64	5.12	3.65	4.14	4.15	4.64	5.12
	8H	3.71	4.16	4.24	4.68	5.17	3.71	4.16	4.24	4.68	5.17
	12H	3.74	4.15	4.26	4.64	5.21	3.74	4.15	4.26	4.64	5.21
12H	4H	3.47	4.00	3.96	4.49	4.96	3.47	4.00	3.96	4.49	4.96
	6H	3.62	4.07	4.14	4.59	5.08	3.62	4.07	4.14	4.59	5.08
	8H	3.72	4.12	4.23	4.61	5.19	3.72	4.12	4.23	4.61	5.19