

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: P979381

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
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-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

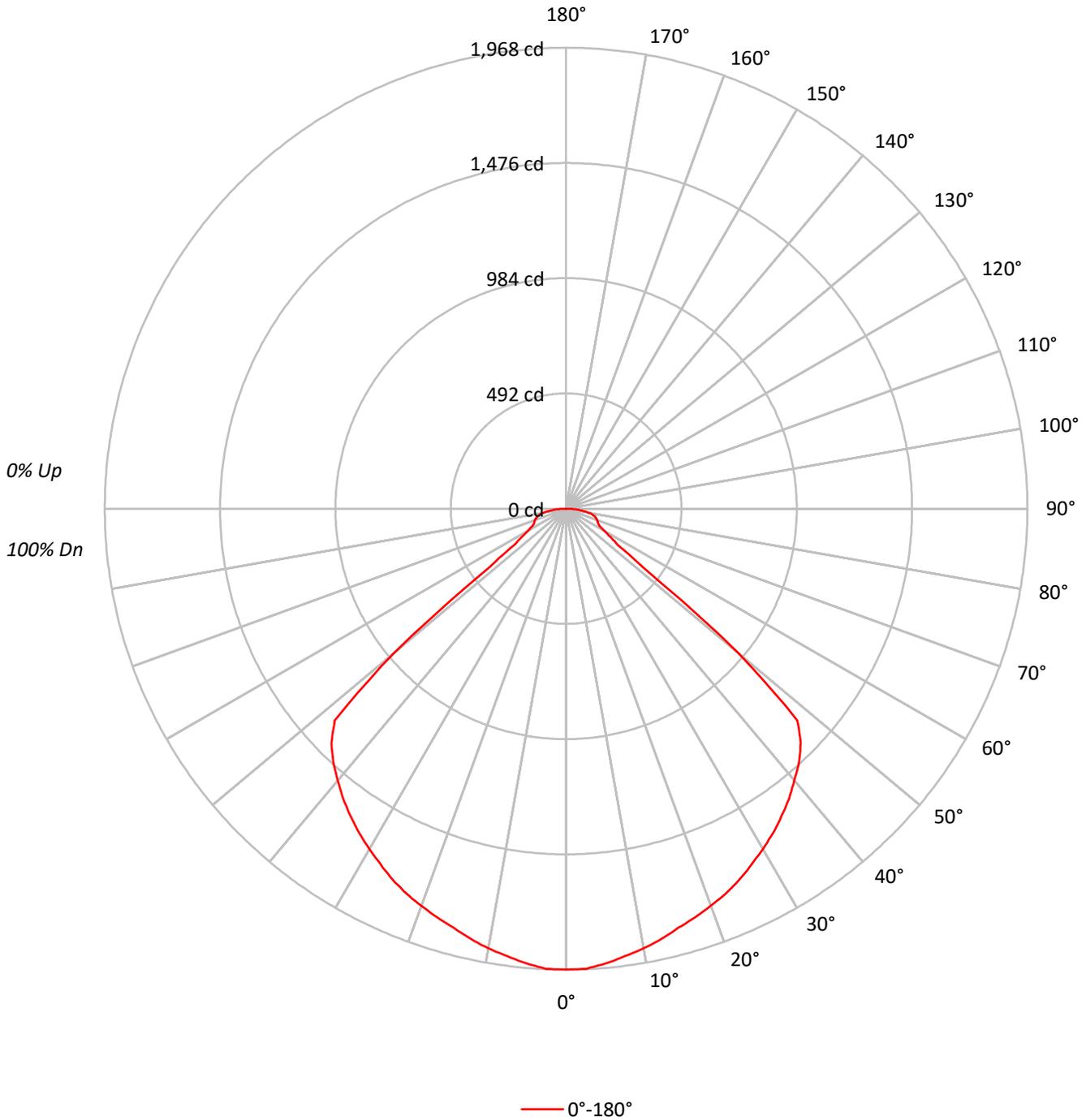
Lumens per Lamp: N/A
Luminaire Lumens: 4234.8 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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									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	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77													77															
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68													68															
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60													60															
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53													53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47													47															
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42													42															
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38													38															
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35													35															
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32													32															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19813
5°	19700
10°	19494
15°	19308
20°	19335
25°	19427
30°	19512
35°	19698
40°	19912
45°	20153
50°	15058
55°	4685
60°	3744
65°	3607
70°	4142
75°	4906
80°	5619
85°	5522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	4.4
10°-20°	524.3	12.4
20°-30°	806.2	19.0
30°-40°	1003.6	23.7
40°-50°	1052.8	24.9
50°-60°	325.5	7.7
60°-70°	154.3	3.6
70°-80°	130.3	3.1
80°-90°	53.3	1.3
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°	1515.0	35.8
0°-40°	2518.6	59.5
0°-60°	3896.9	92.0
0°-90°	4234.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1968	
5°	1949	185
15°	1852	524
25°	1749	806
35°	1602	1004
45°	1415	1053
55°	267	325
65°	151	154
75°	126	130
85°	48	53
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1967.7
2.5°	1966.3
5°	1949.1
7.5°	1926.5
10°	1906.6
12.5°	1881.4
15°	1852.2
17.5°	1829.6
20°	1804.4
22.5°	1779.1
25°	1748.6
27.5°	1712.7
30°	1678.2
32.5°	1642.4
35°	1602.5
37.5°	1561.4
40°	1514.9
42.5°	1469.8
45°	1415.3
47.5°	1338.3
50°	961.3
52.5°	412.9
55°	266.9
57.5°	221.7
60°	185.9
62.5°	162.0
65°	151.4
67.5°	146.0
70°	140.7
72.5°	134.1
75°	126.1
77.5°	114.2
80°	96.9
82.5°	73.0
85°	47.8
87.5°	26.6
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	13.36	14.78	13.72	15.10	15.41	13.36	14.78	13.72	15.10	15.41
	3H	15.32	16.59	15.70	16.91	17.28	15.32	16.59	15.70	16.91	17.28
	4H	16.48	17.66	16.88	18.01	18.39	16.48	17.66	16.88	18.01	18.39
	6H	17.61	18.70	18.02	19.07	19.46	17.61	18.70	18.02	19.07	19.46
	8H	18.04	19.07	18.47	19.46	19.86	18.04	19.07	18.47	19.46	19.86
	12H	18.34	19.33	18.77	19.71	20.14	18.34	19.33	18.77	19.71	20.14
4H	2H	13.87	15.05	14.27	15.40	15.78	13.87	15.05	14.27	15.40	15.78
	3H	16.23	17.20	16.64	17.60	18.01	16.23	17.20	16.64	17.60	18.01
	4H	17.61	18.48	18.05	18.90	19.34	17.61	18.48	18.05	18.90	19.34
	6H	18.94	19.69	19.40	20.14	20.60	18.94	19.69	19.40	20.14	20.60
	8H	19.43	20.14	19.90	20.59	21.05	19.43	20.14	19.90	20.59	21.05
	12H	19.80	20.43	20.29	20.91	21.39	19.80	20.43	20.29	20.91	21.39
8H	4H	18.14	18.85	18.61	19.30	19.77	18.14	18.85	18.61	19.30	19.77
	6H	19.65	20.24	20.15	20.73	21.21	19.65	20.24	20.15	20.73	21.21
	8H	20.25	20.79	20.77	21.30	21.79	20.25	20.79	20.77	21.30	21.79
	12H	20.73	21.21	21.24	21.70	22.27	20.73	21.21	21.24	21.70	22.27
12H	4H	18.24	18.87	18.72	19.35	19.82	18.24	18.87	18.72	19.35	19.82
	6H	19.79	20.32	20.30	20.83	21.32	19.79	20.32	20.30	20.83	21.32
	8H	20.47	20.95	20.98	21.44	22.01	20.47	20.95	20.98	21.44	22.01