

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: P979983

Luminaire Tested: PRLX-242-930-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-LL1-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

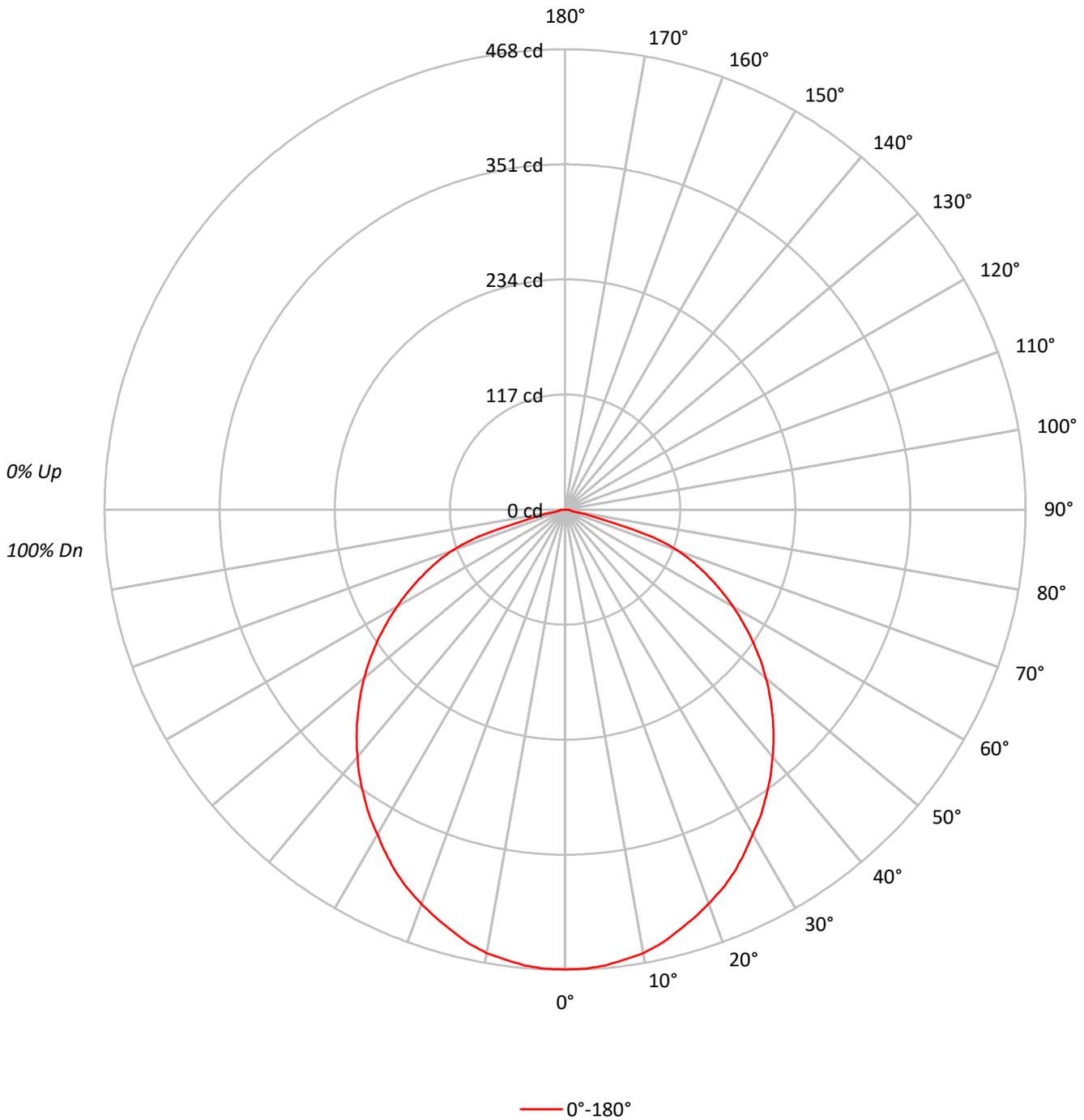
Lumens per Lamp: N/A
Luminaire Lumens: 1233.6 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2093
5°	2091
10°	2081
15°	2056
20°	2031
25°	2008
30°	1970
35°	1946
40°	1917
45°	1888
50°	1855
55°	1814
60°	1763
65°	1698
70°	1604
75°	666
80°	144
85°	231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	3.6
10°-20°	125.2	10.1
20°-30°	187.1	15.2
30°-40°	222.9	18.1
40°-50°	230.1	18.7
50°-60°	207.7	16.8
60°-70°	158.7	12.9
70°-80°	53.6	4.3
80°-90°	4.1	0.3
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°	356.5	28.9
0°-40°	579.4	47.0
0°-60°	1017.2	82.5
0°-90°	1233.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	468	
5°	465	44
15°	444	125
25°	407	187
35°	356	223
45°	298	230
55°	232	208
65°	160	159
75°	38	54
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	467.6
2.5°	467.3
5°	465.4
7.5°	461.7
10°	457.9
12.5°	451.9
15°	443.7
17.5°	435.5
20°	426.5
22.5°	417.5
25°	406.7
27.5°	394.4
30°	381.3
32.5°	369.7
35°	356.2
37.5°	342.8
40°	328.2
42.5°	313.6
45°	298.3
47.5°	282.6
50°	266.5
52.5°	249.7
55°	232.5
57.5°	214.9
60°	197.0
62.5°	179.1
65°	160.4
67.5°	142.0
70°	122.6
72.5°	93.8
75°	38.5
77.5°	8.2
80°	5.6
82.5°	5.2
85°	4.5
87.5°	2.6
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	14.42	16.02	14.79	16.34	16.65	14.42	16.02	14.79	16.34	16.65
	3H	16.25	17.69	16.62	18.02	18.38	16.25	17.69	16.62	18.02	18.38
	4H	16.48	17.83	16.88	18.18	18.56	16.48	17.83	16.88	18.18	18.56
	6H	16.43	17.68	16.84	18.04	18.44	16.43	17.68	16.84	18.04	18.44
	8H	16.40	17.59	16.82	17.98	18.38	16.40	17.59	16.82	17.98	18.38
	12H	16.38	17.52	16.81	17.90	18.33	16.38	17.52	16.81	17.90	18.33
4H	2H	15.07	16.43	15.47	16.77	17.15	15.07	16.43	15.47	16.77	17.15
	3H	17.08	18.20	17.49	18.60	19.00	17.08	18.20	17.49	18.60	19.00
	4H	17.29	18.30	17.73	18.72	19.15	17.29	18.30	17.73	18.72	19.15
	6H	17.25	18.13	17.71	18.57	19.03	17.25	18.13	17.71	18.57	19.03
	8H	17.22	18.04	17.69	18.48	18.95	17.22	18.04	17.69	18.48	18.95
	12H	17.21	17.93	17.69	18.41	18.88	17.21	17.93	17.69	18.41	18.88
8H	4H	17.35	18.16	17.81	18.61	19.07	17.35	18.16	17.81	18.61	19.07
	6H	17.29	17.96	17.79	18.45	18.93	17.29	17.96	17.79	18.45	18.93
	8H	17.26	17.86	17.77	18.37	18.85	17.26	17.86	17.77	18.37	18.85
	12H	17.25	17.78	17.76	18.27	18.83	17.25	17.78	17.76	18.27	18.83
12H	4H	17.32	18.05	17.80	18.53	19.00	17.32	18.05	17.80	18.53	19.00
	6H	17.25	17.85	17.76	18.36	18.85	17.25	17.85	17.76	18.36	18.85
	8H	17.24	17.77	17.75	18.26	18.82	17.24	17.77	17.75	18.26	18.82