

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: P979451

Luminaire Tested: PRLX-240-935-LL4-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979451
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-240-935-LL4-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

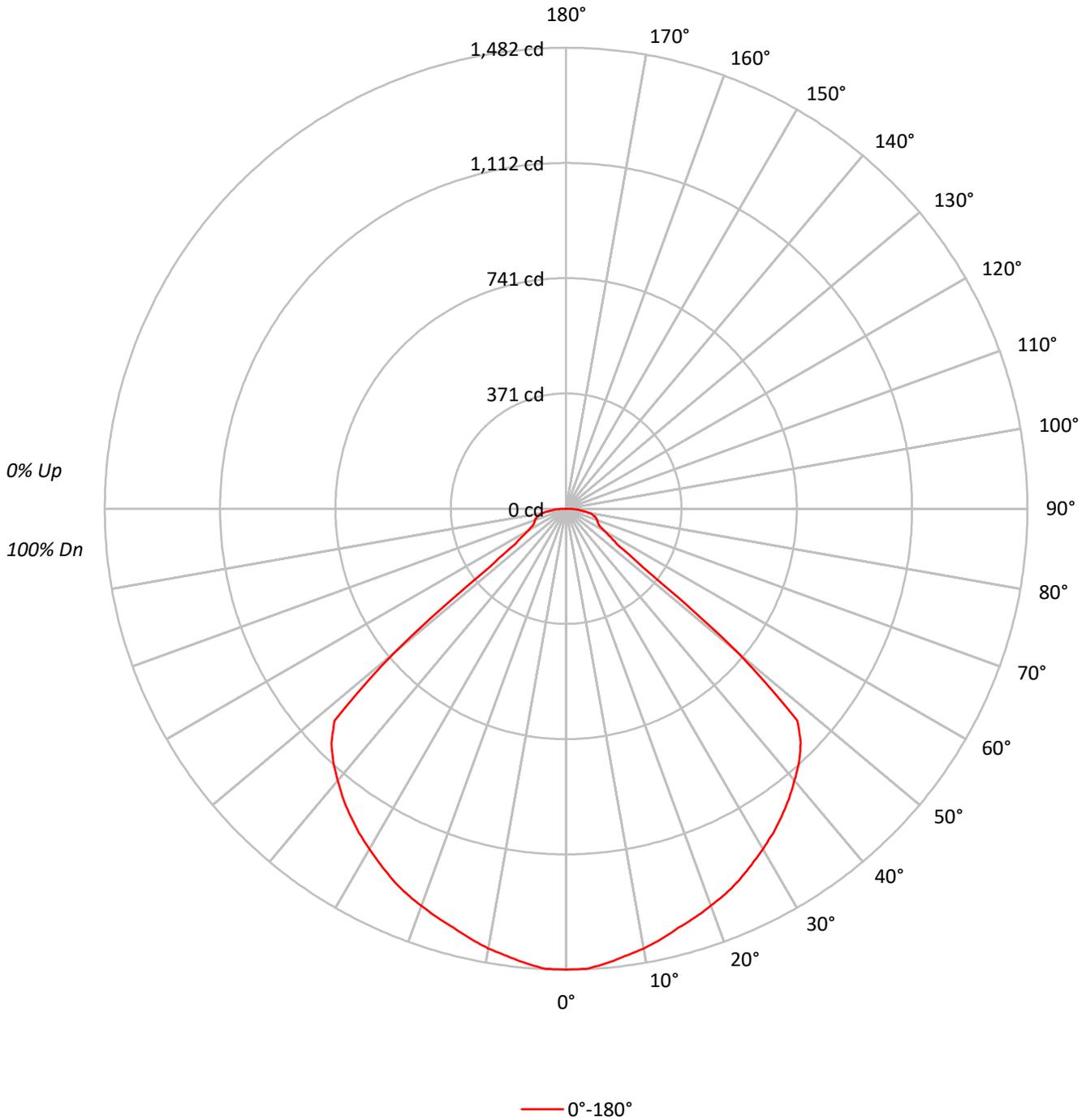
Lumens per Lamp: N/A
Luminaire Lumens: 3189.5 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	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°	14922
5°	14838
10°	14682
15°	14542
20°	14562
25°	14632
30°	14696
35°	14836
40°	14997
45°	15180
50°	11341
55°	3529
60°	2819
65°	2716
70°	3121
75°	3696
80°	4233
85°	4159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	4.4
10°-20°	394.9	12.4
20°-30°	607.2	19.0
30°-40°	755.9	23.7
40°-50°	793.0	24.9
50°-60°	245.1	7.7
60°-70°	116.2	3.6
70°-80°	98.1	3.1
80°-90°	40.1	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°	1141.1	35.8
0°-40°	1897.0	59.5
0°-60°	2935.1	92.0
0°-90°	3189.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3189.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1482	
5°	1468	139
15°	1395	395
25°	1317	607
35°	1207	756
45°	1066	793
55°	201	245
65°	114	116
75°	95	98
85°	36	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1482
2.5°	1481
5°	1468
7.5°	1451
10°	1436
12.5°	1417
15°	1395
17.5°	1378
20°	1359
22.5°	1340
25°	1317
27.5°	1290
30°	1264
32.5°	1237
35°	1207
37.5°	1176
40°	1141
42.5°	1107
45°	1066
47.5°	1008
50°	724
52.5°	311
55°	201
57.5°	167
60°	140
62.5°	122
65°	114
67.5°	110
70°	106
72.5°	101
75°	95
77.5°	86
80°	73
82.5°	55
85°	36
87.5°	20
90°	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	12.37	13.80	12.74	14.11	14.43	12.37	13.80	12.74	14.11	14.43
	3H	14.34	15.60	14.71	15.93	16.29	14.34	15.60	14.71	15.93	16.29
	4H	15.49	16.68	15.90	17.03	17.41	15.49	16.68	15.90	17.03	17.41
	6H	16.63	17.72	17.04	18.08	18.48	16.63	17.72	17.04	18.08	18.48
	8H	17.05	18.09	17.48	18.48	18.88	17.05	18.09	17.48	18.48	18.88
	12H	17.36	18.35	17.79	18.73	19.16	17.36	18.35	17.79	18.73	19.16
4H	2H	12.88	14.06	13.28	14.41	14.79	12.88	14.06	13.28	14.41	14.79
	3H	15.25	16.22	15.66	16.62	17.02	15.25	16.22	15.66	16.62	17.02
	4H	16.63	17.50	17.06	17.91	18.36	16.63	17.50	17.06	17.91	18.36
	6H	17.95	18.71	18.41	19.15	19.61	17.95	18.71	18.41	19.15	19.61
	8H	18.45	19.16	18.92	19.60	20.07	18.45	19.16	18.92	19.60	20.07
	12H	18.82	19.45	19.30	19.93	20.40	18.82	19.45	19.30	19.93	20.40
8H	4H	17.16	17.87	17.63	18.31	18.78	17.16	17.87	17.63	18.31	18.78
	6H	18.66	19.25	19.16	19.75	20.22	18.66	19.25	19.16	19.75	20.22
	8H	19.27	19.80	19.79	20.31	20.80	19.27	19.80	19.79	20.31	20.80
	12H	19.75	20.23	20.26	20.72	21.29	19.75	20.23	20.26	20.72	21.29
12H	4H	17.25	17.89	17.74	18.37	18.84	17.25	17.89	17.74	18.37	18.84
	6H	18.80	19.34	19.32	19.85	20.34	18.80	19.34	19.32	19.85	20.34
	8H	19.48	19.96	20.00	20.45	21.02	19.48	19.96	20.00	20.45	21.02