

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: P980093

Luminaire Tested: PRLX-242-935-LL4-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980093
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-242-935-LL4-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

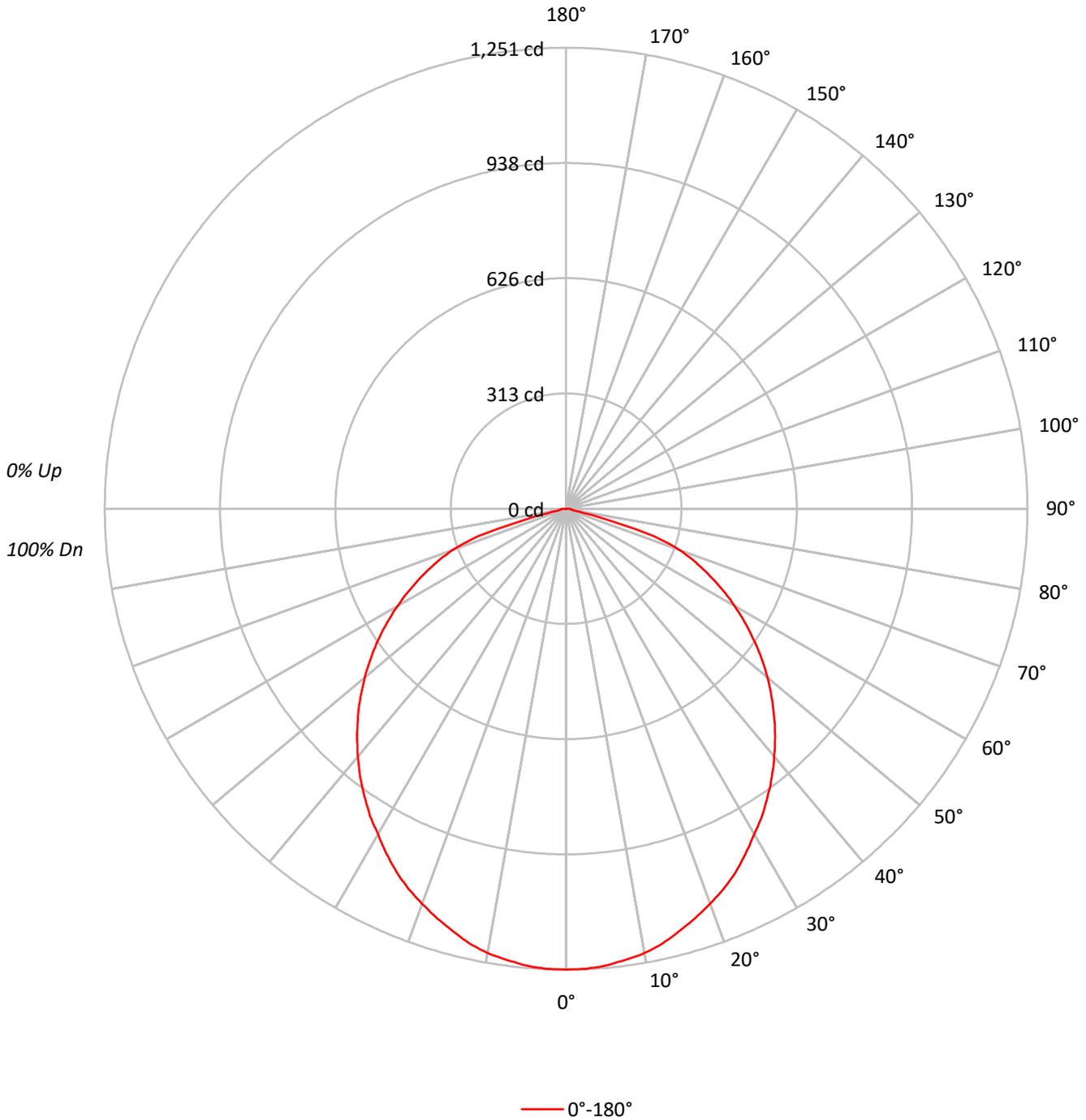
Lumens per Lamp: N/A
Luminaire Lumens: 3300.2 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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°	5598
5°	5593
10°	5567
15°	5499
20°	5434
25°	5372
30°	5271
35°	5206
40°	5129
45°	5050
50°	4964
55°	4853
60°	4717
65°	4543
70°	4292
75°	1781
80°	387
85°	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.6
10°-20°	335.0	10.1
20°-30°	500.6	15.2
30°-40°	596.3	18.1
40°-50°	615.6	18.7
50°-60°	555.8	16.8
60°-70°	424.5	12.9
70°-80°	143.3	4.3
80°-90°	11.0	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°	953.7	28.9
0°-40°	1550.0	47.0
0°-60°	2721.4	82.5
0°-90°	3300.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1251	
5°	1245	118
15°	1187	335
25°	1088	501
35°	953	596
45°	798	616
55°	622	556
65°	429	424
75°	103	143
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1251
2.5°	1250
5°	1245
7.5°	1235
10°	1225
12.5°	1209
15°	1187
17.5°	1165
20°	1141
22.5°	1117
25°	1088
27.5°	1055
30°	1020
32.5°	989
35°	953
37.5°	917
40°	878
42.5°	839
45°	798
47.5°	756
50°	713
52.5°	668
55°	622
57.5°	575
60°	527
62.5°	479
65°	429
67.5°	380
70°	328
72.5°	251
75°	103
77.5°	22
80°	15
82.5°	14
85°	12
87.5°	7
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	17.84	19.44	18.20	19.76	20.07	17.84	19.44	18.20	19.76	20.07
	3H	19.67	21.11	20.04	21.44	21.80	19.67	21.11	20.04	21.44	21.80
	4H	19.90	21.25	20.30	21.60	21.98	19.90	21.25	20.30	21.60	21.98
	6H	19.85	21.10	20.26	21.46	21.86	19.85	21.10	20.26	21.46	21.86
	8H	19.82	21.01	20.24	21.40	21.80	19.82	21.01	20.24	21.40	21.80
	12H	19.80	20.94	20.23	21.32	21.75	19.80	20.94	20.23	21.32	21.75
4H	2H	18.49	19.84	18.89	20.19	20.57	18.49	19.84	18.89	20.19	20.57
	3H	20.50	21.62	20.91	22.02	22.42	20.50	21.62	20.91	22.02	22.42
	4H	20.71	21.72	21.14	22.14	22.57	20.71	21.72	21.14	22.14	22.57
	6H	20.67	21.55	21.13	21.99	22.45	20.67	21.55	21.13	21.99	22.45
	8H	20.64	21.46	21.10	21.90	22.37	20.64	21.46	21.10	21.90	22.37
	12H	20.63	21.35	21.11	21.83	22.30	20.63	21.35	21.11	21.83	22.30
8H	4H	20.77	21.58	21.23	22.03	22.49	20.77	21.58	21.23	22.03	22.49
	6H	20.71	21.38	21.21	21.87	22.35	20.71	21.38	21.21	21.87	22.35
	8H	20.68	21.28	21.19	21.79	22.27	20.68	21.28	21.19	21.79	22.27
	12H	20.67	21.20	21.18	21.69	22.25	20.67	21.20	21.18	21.69	22.25
12H	4H	20.74	21.47	21.22	21.95	22.42	20.74	21.47	21.22	21.95	22.42
	6H	20.67	21.27	21.18	21.78	22.27	20.67	21.27	21.18	21.78	22.27
	8H	20.66	21.19	21.17	21.68	22.24	20.66	21.19	21.17	21.68	22.24