

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: P979923

Luminaire Tested: PRLX-242-927-LL3-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979923
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-242-927-LL3-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

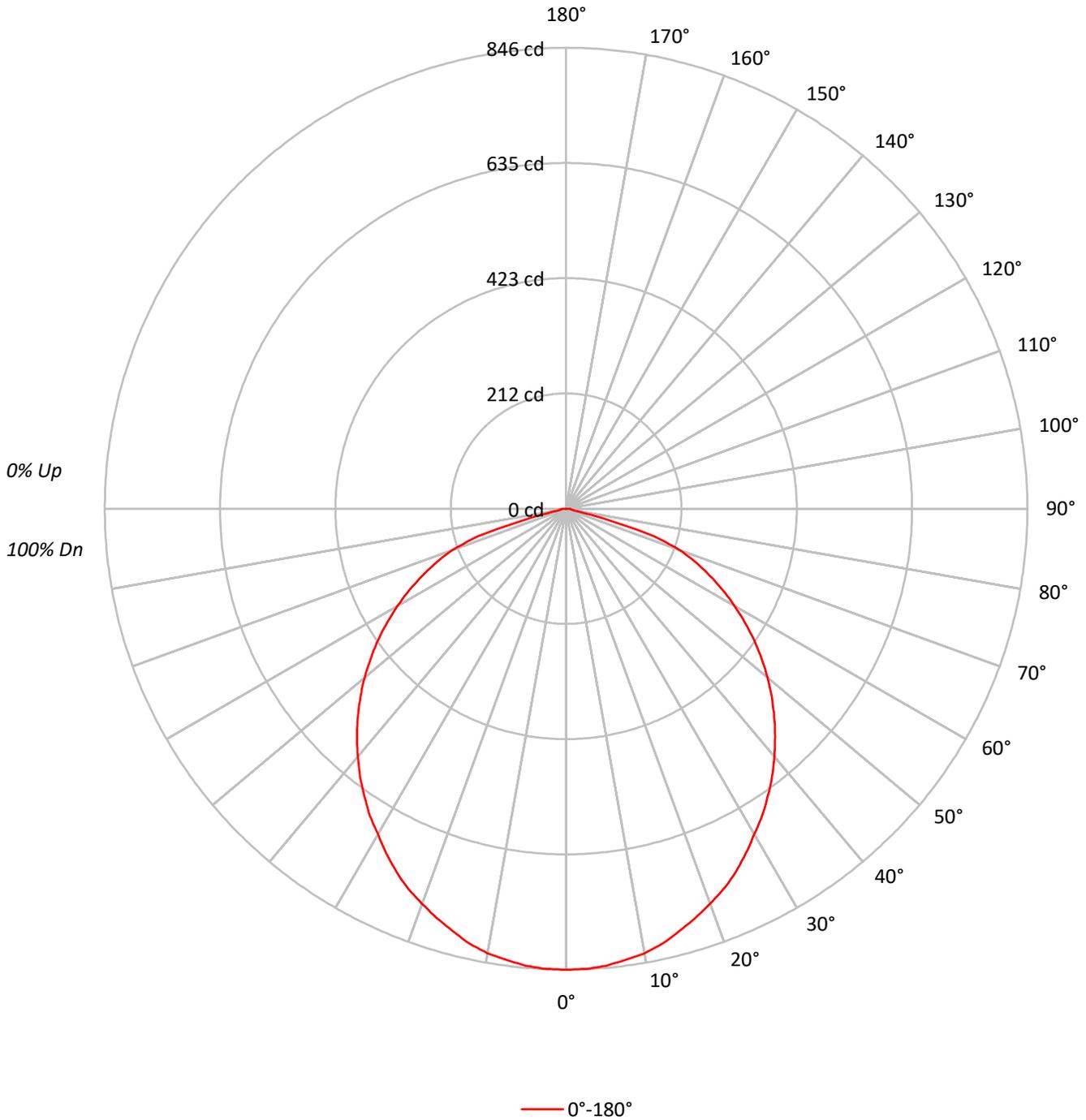
Lumens per Lamp: N/A
Luminaire Lumens: 2232.3 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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°	3787
5°	3783
10°	3765
15°	3720
20°	3676
25°	3634
30°	3566
35°	3522
40°	3469
45°	3416
50°	3358
55°	3282
60°	3191
65°	3073
70°	2903
75°	1205
80°	260
85°	416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3416 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.6
10°-20°	226.6	10.1
20°-30°	338.6	15.2
30°-40°	403.4	18.1
40°-50°	416.4	18.7
50°-60°	375.9	16.8
60°-70°	287.1	12.9
70°-80°	97.0	4.3
80°-90°	7.4	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°	645.1	28.9
0°-40°	1048.5	47.0
0°-60°	1840.8	82.5
0°-90°	2232.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	846	
5°	842	80
15°	803	227
25°	736	339
35°	645	403
45°	540	416
55°	421	376
65°	290	287
75°	70	97
85°	8	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	846.2
2.5°	845.5
5°	842.1
7.5°	835.4
10°	828.6
12.5°	817.8
15°	802.9
17.5°	788.0
20°	771.8
22.5°	755.6
25°	735.9
27.5°	713.6
30°	690.0
32.5°	669.0
35°	644.6
37.5°	620.3
40°	593.9
42.5°	567.5
45°	539.8
47.5°	511.4
50°	482.3
52.5°	451.8
55°	420.7
57.5°	388.9
60°	356.5
62.5°	324.0
65°	290.2
67.5°	257.0
70°	221.9
72.5°	169.8
75°	69.7
77.5°	14.9
80°	10.1
82.5°	9.5
85°	8.1
87.5°	4.7
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	16.48	18.09	16.85	18.40	18.71	16.48	18.09	16.85	18.40	18.71
	3H	18.31	19.75	18.69	20.08	20.44	18.31	19.75	18.69	20.08	20.44
	4H	18.54	19.89	18.94	20.24	20.62	18.54	19.89	18.94	20.24	20.62
	6H	18.49	19.74	18.90	20.11	20.50	18.49	19.74	18.90	20.11	20.50
	8H	18.46	19.65	18.89	20.04	20.44	18.46	19.65	18.89	20.04	20.44
	12H	18.44	19.58	18.87	19.96	20.39	18.44	19.58	18.87	19.96	20.39
4H	2H	17.13	18.49	17.53	18.83	19.21	17.13	18.49	17.53	18.83	19.21
	3H	19.14	20.26	19.55	20.66	21.06	19.14	20.26	19.55	20.66	21.06
	4H	19.35	20.36	19.79	20.78	21.22	19.35	20.36	19.79	20.78	21.22
	6H	19.32	20.19	19.77	20.63	21.09	19.32	20.19	19.77	20.63	21.09
	8H	19.28	20.10	19.75	20.54	21.01	19.28	20.10	19.75	20.54	21.01
	12H	19.27	20.00	19.75	20.47	20.94	19.27	20.00	19.75	20.47	20.94
8H	4H	19.41	20.22	19.87	20.67	21.13	19.41	20.22	19.87	20.67	21.13
	6H	19.36	20.02	19.85	20.51	20.99	19.36	20.02	19.85	20.51	20.99
	8H	19.32	19.92	19.84	20.43	20.92	19.32	19.92	19.84	20.43	20.92
	12H	19.31	19.84	19.82	20.33	20.89	19.31	19.84	19.82	20.33	20.89
12H	4H	19.38	20.11	19.86	20.59	21.06	19.38	20.11	19.86	20.59	21.06
	6H	19.31	19.91	19.83	20.42	20.91	19.31	19.91	19.83	20.42	20.91
	8H	19.30	19.83	19.81	20.32	20.88	19.30	19.83	19.81	20.32	20.88