

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: P979283

Luminaire Tested: PRLX-240-927-LL3-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL3-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

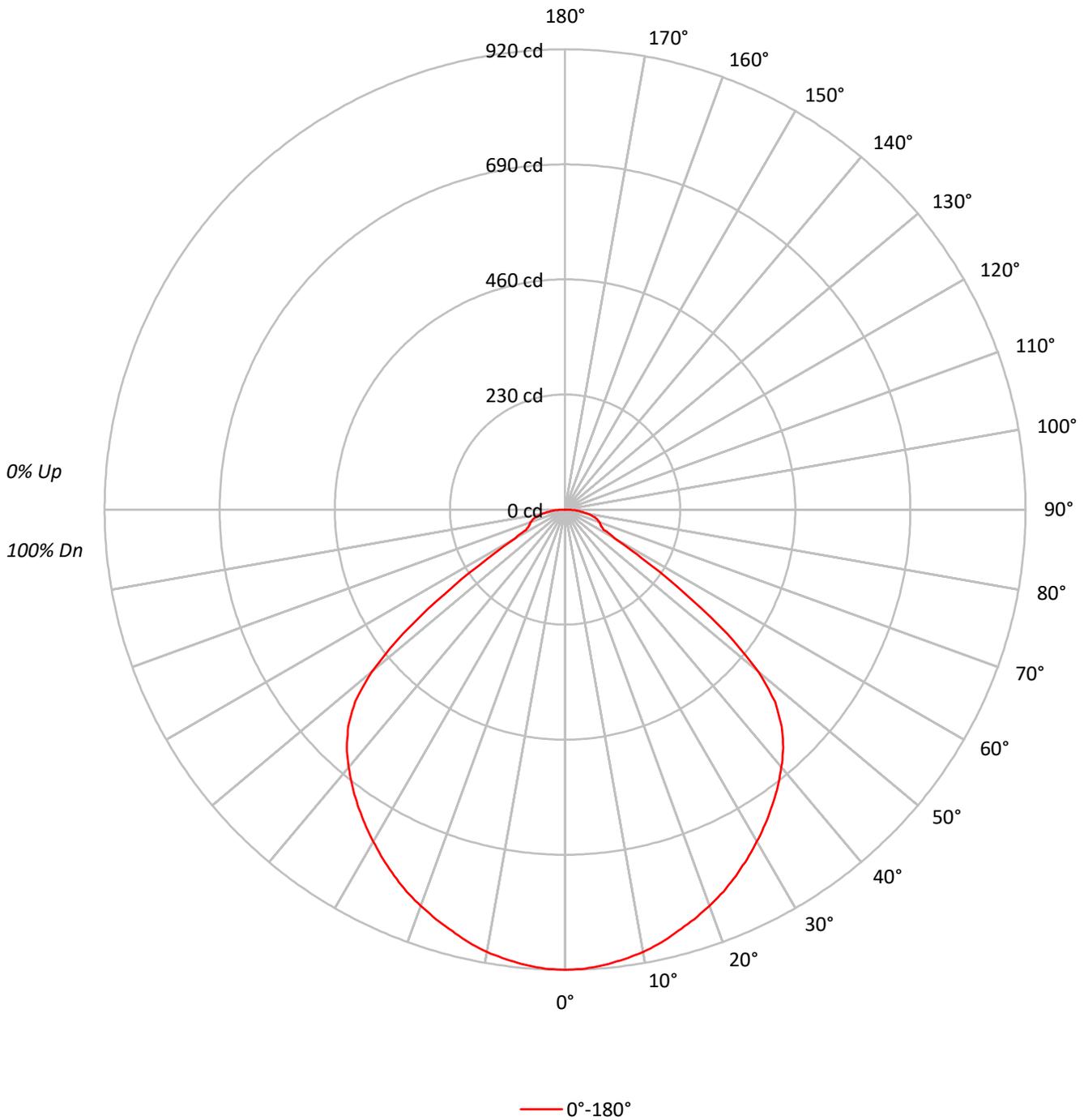
Lumens per Lamp: N/A
Luminaire Lumens: 2058.6 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9262
5°	9236
10°	9185
15°	9089
20°	9031
25°	8972
30°	8911
35°	8871
40°	8838
45°	8718
50°	7893
55°	5130
60°	2316
65°	1901
70°	2152
75°	2396
80°	2511
85°	2576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8718 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	4.2
10°-20°	246.3	12.0
20°-30°	372.3	18.1
30°-40°	451.8	21.9
40°-50°	465.8	22.6
50°-60°	264.2	12.8
60°-70°	83.5	4.1
70°-80°	63.8	3.1
80°-90°	24.3	1.2
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°	705.3	34.3
0°-40°	1157.1	56.2
0°-60°	1887.0	91.7
0°-90°	2058.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	920	
5°	914	87
15°	872	246
25°	808	372
35°	722	452
45°	612	466
55°	292	264
65°	80	84
75°	62	64
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	919.9
2.5°	918.6
5°	913.8
7.5°	906.4
10°	898.3
12.5°	886.8
15°	871.9
17.5°	858.4
20°	842.8
22.5°	826.6
25°	807.6
27.5°	787.4
30°	766.4
32.5°	744.7
35°	721.7
37.5°	698.1
40°	672.4
42.5°	645.3
45°	612.2
47.5°	568.9
50°	503.9
52.5°	408.6
55°	292.2
57.5°	183.3
60°	115.0
62.5°	87.3
65°	79.8
67.5°	76.4
70°	73.1
72.5°	68.3
75°	61.6
77.5°	53.4
80°	43.3
82.5°	33.1
85°	22.3
87.5°	12.2
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	14.37	15.84	14.74	16.15	16.47	14.37	15.84	14.74	16.15	16.47
	3H	15.26	16.57	15.64	16.90	17.26	15.26	16.57	15.64	16.90	17.26
	4H	15.87	17.09	16.27	17.44	17.82	15.87	17.09	16.27	17.44	17.82
	6H	16.47	17.59	16.88	17.96	18.35	16.47	17.59	16.88	17.96	18.35
	8H	16.71	17.77	17.13	18.16	18.57	16.71	17.77	17.13	18.16	18.57
	12H	16.89	17.91	17.32	18.30	18.73	16.89	17.91	17.32	18.30	18.73
4H	2H	14.50	15.72	14.90	16.06	16.44	14.50	15.72	14.90	16.06	16.44
	3H	15.74	16.74	16.15	17.14	17.54	15.74	16.74	16.15	17.14	17.54
	4H	16.56	17.46	16.99	17.87	18.31	16.56	17.46	16.99	17.87	18.31
	6H	17.37	18.14	17.83	18.59	19.05	17.37	18.14	17.83	18.59	19.05
	8H	17.68	18.41	18.15	18.86	19.33	17.68	18.41	18.15	18.86	19.33
	12H	17.94	18.60	18.43	19.08	19.55	17.94	18.60	18.43	19.08	19.55
8H	4H	16.88	17.60	17.34	18.05	18.52	16.88	17.60	17.34	18.05	18.52
	6H	17.84	18.45	18.34	18.94	19.42	17.84	18.45	18.34	18.94	19.42
	8H	18.26	18.81	18.78	19.33	19.81	18.26	18.81	18.78	19.33	19.81
	12H	18.63	19.13	19.14	19.62	20.18	18.63	19.13	19.14	19.62	20.18
12H	4H	16.92	17.57	17.40	18.05	18.52	16.92	17.57	17.40	18.05	18.52
	6H	17.92	18.48	18.44	18.99	19.48	17.92	18.48	18.44	18.99	19.48
	8H	18.42	18.91	18.93	19.40	19.97	18.42	18.91	18.93	19.40	19.97