

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980053

Luminaire Tested: PRLX-242-930-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980053
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-242-930-74L-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

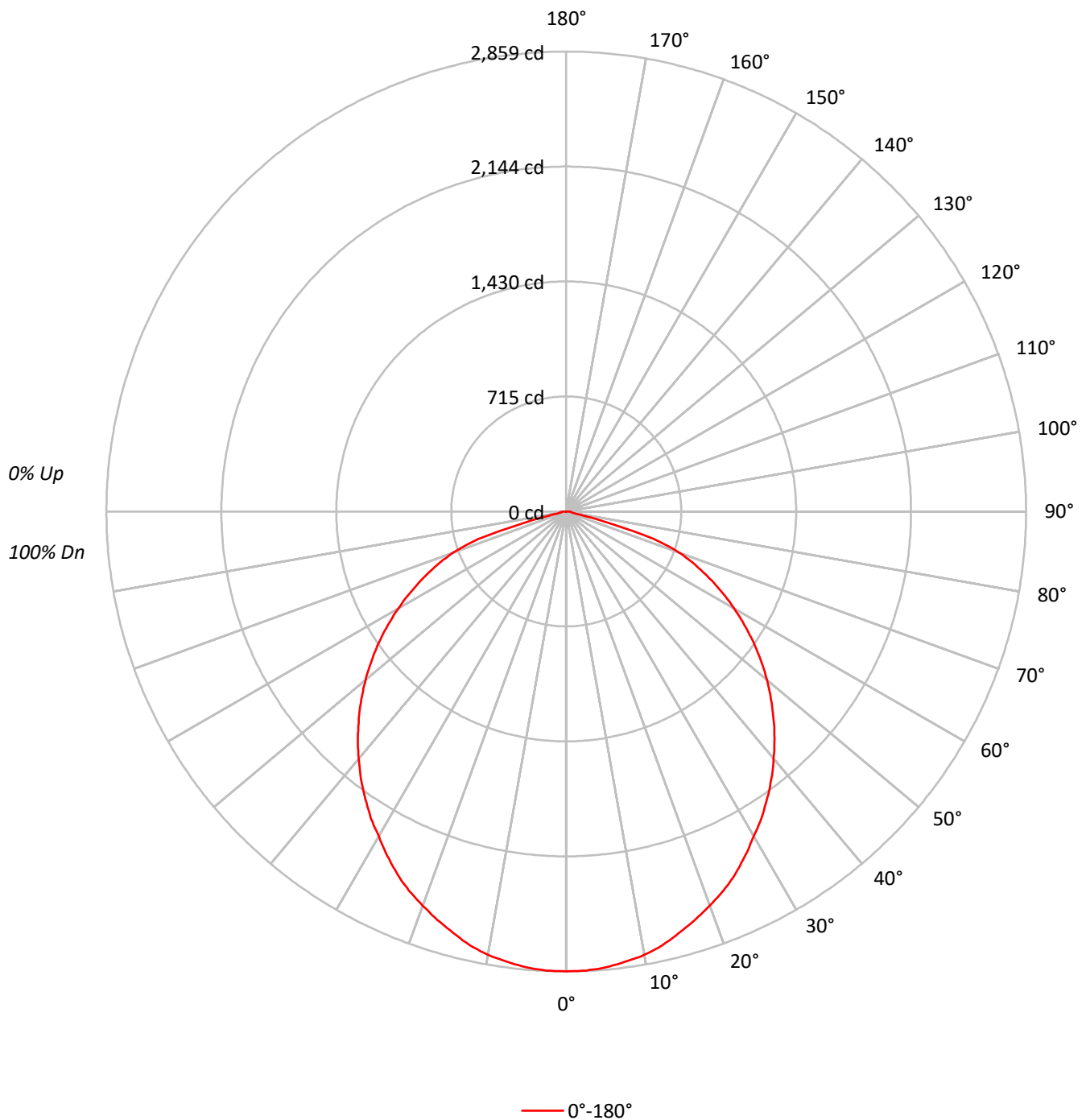
Lumens per Lamp: N/A
Luminaire Lumens: 7542.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		71
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12795
5°	12783
10°	12723
15°	12569
20°	12419
25°	12279
30°	12047
35°	11899
40°	11723
45°	11543
50°	11345
55°	11092
60°	10781
65°	10383
70°	9809
75°	4070
80°	884
85°	1407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.6
10°-20°	765.6	10.1
20°-30°	1144.2	15.2
30°-40°	1362.9	18.1
40°-50°	1407.0	18.7
50°-60°	1270.2	16.8
60°-70°	970.1	12.9
70°-80°	327.6	4.3
80°-90°	25.2	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°	2179.8	28.9
0°-40°	3542.7	47.0
0°-60°	6219.9	82.5
0°-90°	7542.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7542.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2859	
5°	2846	270
15°	2713	766
25°	2487	1144
35°	2178	1363
45°	1824	1407
55°	1422	1270
65°	980	970
75°	235	328
85°	27	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2859.2
2.5°	2856.9
5°	2845.5
7.5°	2822.7
10°	2799.8
12.5°	2763.2
15°	2713.0
17.5°	2662.7
20°	2607.8
22.5°	2553.0
25°	2486.7
27.5°	2411.3
30°	2331.3
32.5°	2260.4
35°	2178.1
37.5°	2095.9
40°	2006.7
42.5°	1917.6
45°	1823.9
47.5°	1727.9
50°	1629.6
52.5°	1526.8
55°	1421.6
57.5°	1314.2
60°	1204.5
62.5°	1094.8
65°	980.5
67.5°	868.5
70°	749.7
72.5°	573.7
75°	235.4
77.5°	50.3
80°	34.3
82.5°	32.0
85°	27.4
87.5°	16.0
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	20.71	22.32	21.08	22.63	22.94	20.71	22.32	21.08	22.63	22.94
	3H	22.54	23.98	22.92	24.31	24.67	22.54	23.98	22.92	24.31	24.67
	4H	22.77	24.13	23.17	24.47	24.85	22.77	24.13	23.17	24.47	24.85
	6H	22.72	23.97	23.13	24.34	24.73	22.72	23.97	23.13	24.34	24.73
	8H	22.69	23.88	23.12	24.27	24.67	22.69	23.88	23.12	24.27	24.67
	12H	22.67	23.81	23.10	24.19	24.62	22.67	23.81	23.10	24.19	24.62
4H	2H	21.36	22.72	21.76	23.06	23.44	21.36	22.72	21.76	23.06	23.44
	3H	23.37	24.49	23.78	24.89	25.29	23.37	24.49	23.78	24.89	25.29
	4H	23.59	24.59	24.02	25.01	25.45	23.59	24.59	24.02	25.01	25.45
	6H	23.55	24.42	24.00	24.86	25.32	23.55	24.42	24.00	24.86	25.32
	8H	23.51	24.33	23.98	24.77	25.24	23.51	24.33	23.98	24.77	25.24
	12H	23.50	24.23	23.98	24.70	25.17	23.50	24.23	23.98	24.70	25.17
8H	4H	23.64	24.45	24.10	24.90	25.36	23.64	24.45	24.10	24.90	25.36
	6H	23.59	24.25	24.08	24.74	25.22	23.59	24.25	24.08	24.74	25.22
	8H	23.55	24.15	24.07	24.66	25.15	23.55	24.15	24.07	24.66	25.15
	12H	23.54	24.07	24.05	24.56	25.12	23.54	24.07	24.05	24.56	25.12
12H	4H	23.61	24.34	24.10	24.82	25.29	23.61	24.34	24.10	24.82	25.29
	6H	23.54	24.14	24.06	24.65	25.14	23.54	24.14	24.06	24.65	25.14
	8H	23.53	24.06	24.04	24.55	25.11	23.53	24.06	24.04	24.55	25.11