

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: P980013

Luminaire Tested: PRLX-242-930-31L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980013
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-242-930-31L-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

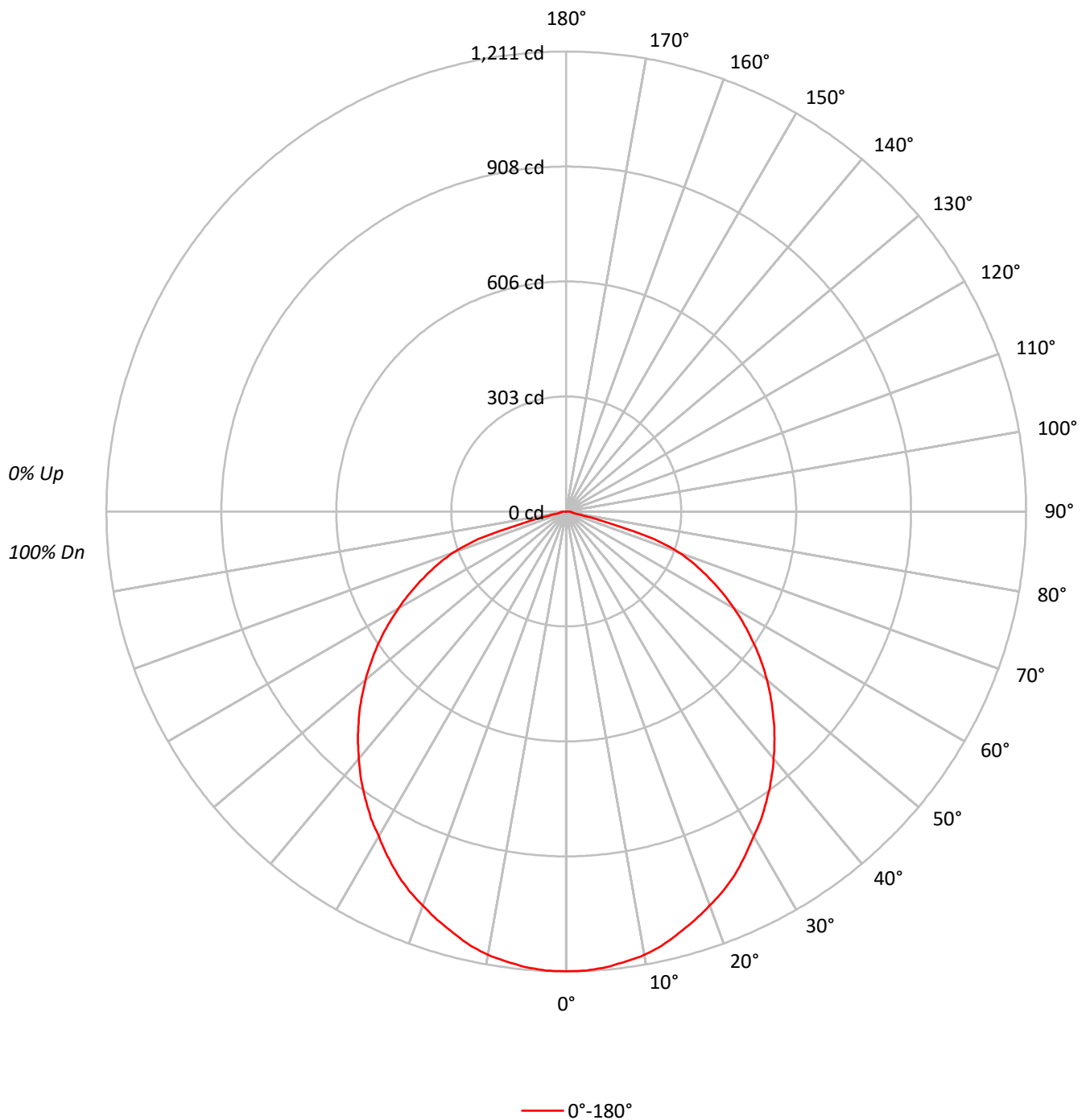
Lumens per Lamp: N/A
Luminaire Lumens: 3194.4 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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
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°	5419
5°	5414
10°	5388
15°	5323
20°	5260
25°	5200
30°	5102
35°	5039
40°	4964
45°	4888
50°	4805
55°	4698
60°	4566
65°	4397
70°	4154
75°	1724
80°	374
85°	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.6
10°-20°	324.2	10.1
20°-30°	484.6	15.2
30°-40°	577.2	18.1
40°-50°	595.8	18.7
50°-60°	538.0	16.8
60°-70°	410.8	12.9
70°-80°	138.8	4.3
80°-90°	10.7	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°	923.1	28.9
0°-40°	1500.3	47.0
0°-60°	2634.1	82.5
0°-90°	3194.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1211	
5°	1205	114
15°	1149	324
25°	1053	485
35°	922	577
45°	772	596
55°	602	538
65°	415	411
75°	100	139
85°	12	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1210.9
2.5°	1209.9
5°	1205.1
7.5°	1195.4
10°	1185.7
12.5°	1170.2
15°	1148.9
17.5°	1127.6
20°	1104.4
22.5°	1081.2
25°	1053.1
27.5°	1021.2
30°	987.3
32.5°	957.3
35°	922.4
37.5°	887.6
40°	849.8
42.5°	812.1
45°	772.4
47.5°	731.8
50°	690.1
52.5°	646.6
55°	602.1
57.5°	556.6
60°	510.1
62.5°	463.6
65°	415.2
67.5°	367.8
70°	317.5
72.5°	243.0
75°	99.7
77.5°	21.3
80°	14.5
82.5°	13.6
85°	11.6
87.5°	6.8
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	17.73	19.33	18.09	19.65	19.96	17.73	19.33	18.09	19.65	19.96
	3H	19.55	21.00	19.93	21.32	21.68	19.55	21.00	19.93	21.32	21.68
	4H	19.79	21.14	20.18	21.49	21.86	19.79	21.14	20.18	21.49	21.86
	6H	19.74	20.99	20.15	21.35	21.74	19.74	20.99	20.15	21.35	21.74
	8H	19.71	20.90	20.13	21.29	21.69	19.71	20.90	20.13	21.29	21.69
	12H	19.68	20.83	20.11	21.21	21.64	19.68	20.83	20.11	21.21	21.64
4H	2H	18.38	19.73	18.78	20.08	20.46	18.38	19.73	18.78	20.08	20.46
	3H	20.38	21.51	20.79	21.90	22.31	20.38	21.51	20.79	21.90	22.31
	4H	20.60	21.61	21.03	22.02	22.46	20.60	21.61	21.03	22.02	22.46
	6H	20.56	21.44	21.02	21.88	22.34	20.56	21.44	21.02	21.88	22.34
	8H	20.53	21.35	20.99	21.79	22.26	20.53	21.35	20.99	21.79	22.26
	12H	20.51	21.24	20.99	21.72	22.19	20.51	21.24	20.99	21.72	22.19
8H	4H	20.65	21.47	21.12	21.91	22.38	20.65	21.47	21.12	21.91	22.38
	6H	20.60	21.27	21.10	21.76	22.24	20.60	21.27	21.10	21.76	22.24
	8H	20.57	21.16	21.08	21.67	22.16	20.57	21.16	21.08	21.67	22.16
	12H	20.56	21.08	21.07	21.57	22.14	20.56	21.08	21.07	21.57	22.14
12H	4H	20.63	21.36	21.11	21.83	22.30	20.63	21.36	21.11	21.83	22.30
	6H	20.56	21.16	21.07	21.67	22.15	20.56	21.16	21.07	21.67	22.15
	8H	20.55	21.07	21.06	21.56	22.13	20.55	21.07	21.06	21.56	22.13