

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: P979341

Luminaire Tested: PRLX-240-930-12L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-12L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

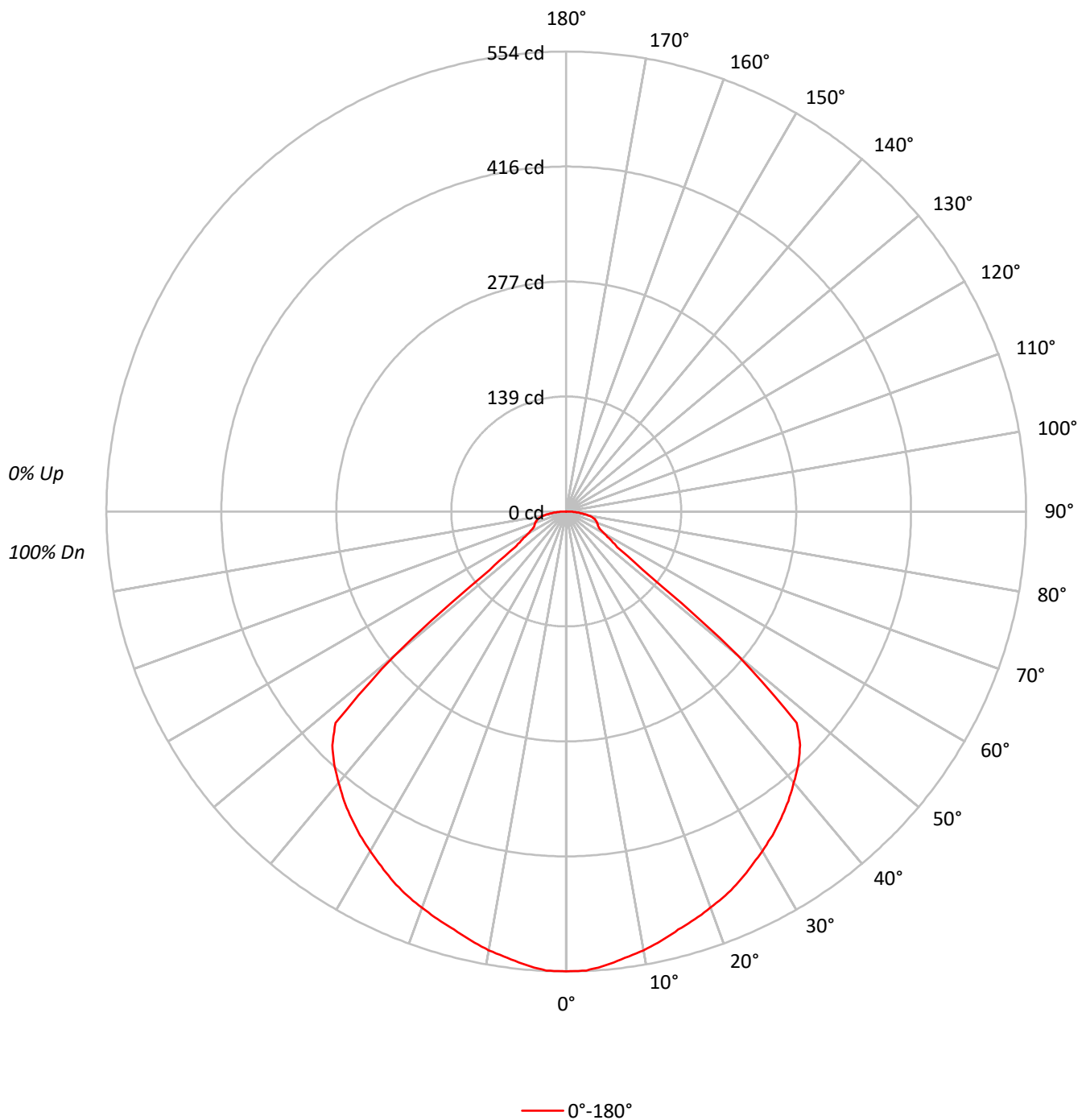
Lumens per Lamp: N/A
Luminaire Lumens: 1192.3 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		46
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5578
5°	5546
10°	5488
15°	5436
20°	5443
25°	5469
30°	5494
35°	5546
40°	5606
45°	5675
50°	4239
55°	1318
60°	1053
65°	1015
70°	1166
75°	1381
80°	1583
85°	1560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	4.4
10°-20°	147.6	12.4
20°-30°	227.0	19.0
30°-40°	282.6	23.7
40°-50°	296.4	24.9
50°-60°	91.6	7.7
60°-70°	43.4	3.6
70°-80°	36.7	3.1
80°-90°	15.0	1.3
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°	426.5	35.8
0°-40°	709.1	59.5
0°-60°	1097.1	92.0
0°-90°	1192.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	554	
5°	549	52
15°	522	148
25°	492	227
35°	451	283
45°	398	296
55°	75	92
65°	43	43
75°	36	37
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	554.0
2.5°	553.6
5°	548.7
7.5°	542.4
10°	536.8
12.5°	529.7
15°	521.5
17.5°	515.1
20°	508.0
22.5°	500.9
25°	492.3
27.5°	482.2
30°	472.5
32.5°	462.4
35°	451.2
37.5°	439.6
40°	426.5
42.5°	413.8
45°	398.5
47.5°	376.8
50°	270.6
52.5°	116.3
55°	75.1
57.5°	62.4
60°	52.3
62.5°	45.6
65°	42.6
67.5°	41.1
70°	39.6
72.5°	37.8
75°	35.5
77.5°	32.1
80°	27.3
82.5°	20.6
85°	13.5
87.5°	7.5
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	8.95	10.38	9.32	10.69	11.00	8.95	10.38	9.32	10.69	11.00
	3H	10.91	12.18	11.29	12.51	12.87	10.91	12.18	11.29	12.51	12.87
	4H	12.07	13.26	12.48	13.61	13.99	12.07	13.26	12.48	13.61	13.99
	6H	13.21	14.29	13.62	14.66	15.06	13.21	14.29	13.62	14.66	15.06
	8H	13.63	14.67	14.06	15.06	15.46	13.63	14.67	14.06	15.06	15.46
	12H	13.94	14.93	14.37	15.31	15.74	13.94	14.93	14.37	15.31	15.74
4H	2H	9.46	10.64	9.86	10.99	11.37	9.46	10.64	9.86	10.99	11.37
	3H	11.83	12.80	12.24	13.20	13.60	11.83	12.80	12.24	13.20	13.60
	4H	13.21	14.08	13.64	14.49	14.93	13.21	14.08	13.64	14.49	14.93
	6H	14.53	15.29	14.99	15.73	16.19	14.53	15.29	14.99	15.73	16.19
	8H	15.03	15.74	15.50	16.18	16.65	15.03	15.74	15.50	16.18	16.65
	12H	15.40	16.03	15.88	16.51	16.98	15.40	16.03	15.88	16.51	16.98
8H	4H	13.74	14.45	14.21	14.89	15.36	13.74	14.45	14.21	14.89	15.36
	6H	15.24	15.83	15.74	16.32	16.80	15.24	15.83	15.74	16.32	16.80
	8H	15.85	16.38	16.37	16.89	17.38	15.85	16.38	16.37	16.89	17.38
	12H	16.33	16.81	16.84	17.30	17.87	16.33	16.81	16.84	17.30	17.87
12H	4H	13.83	14.46	14.32	14.95	15.42	13.83	14.46	14.32	14.95	15.42
	6H	15.38	15.92	15.90	16.43	16.92	15.38	15.92	15.90	16.43	16.92
	8H	16.07	16.54	16.58	17.04	17.60	16.07	16.54	16.58	17.04	17.60