

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: P979351

Luminaire Tested: PRLX-240-930-18L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979351
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-240-930-18L-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

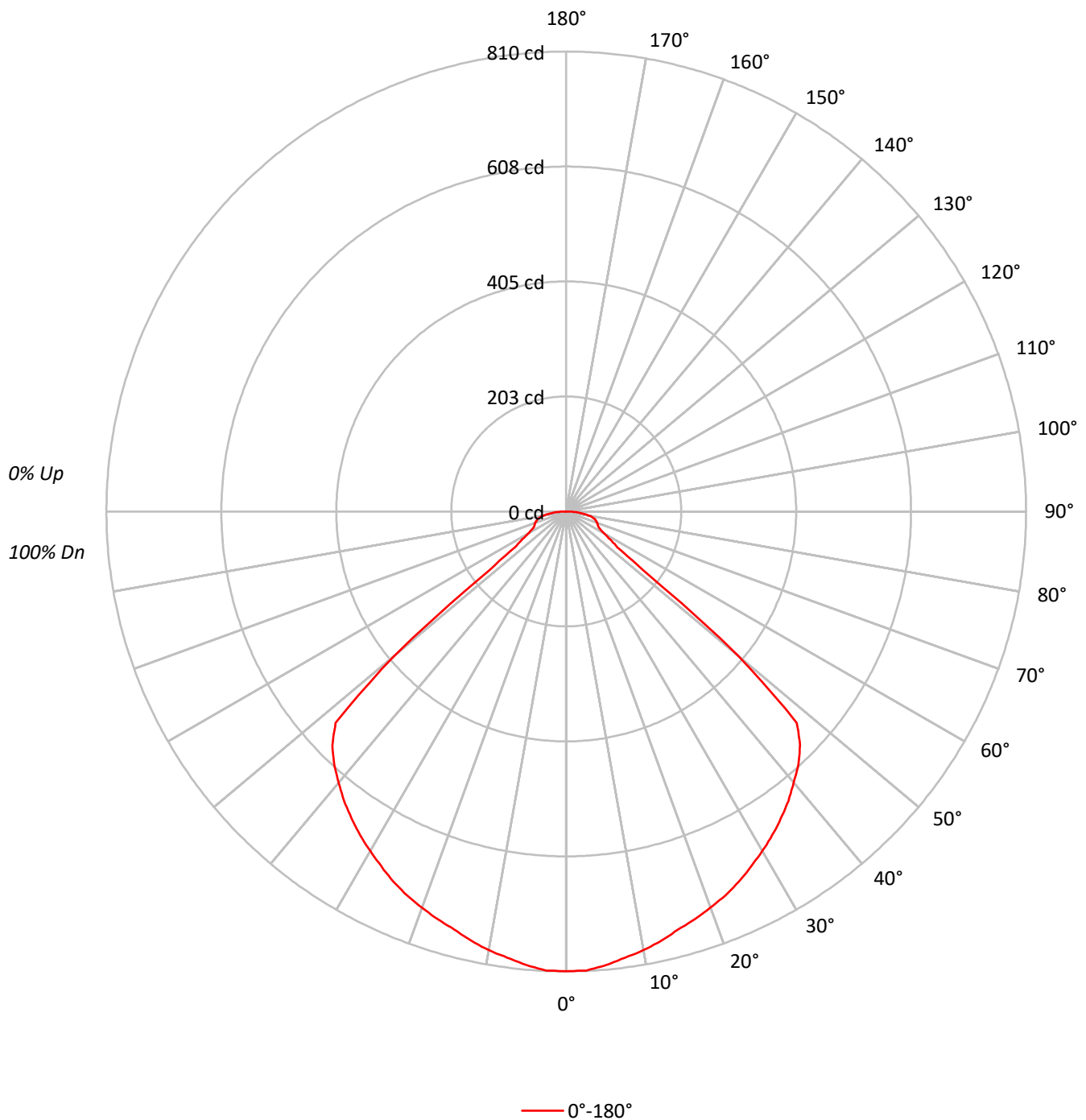
Lumens per Lamp: N/A
Luminaire Lumens: 1742.8 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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

TEST NUMBER: P979351

CATALOG NUMBER: PRLX-240-930-18L-C-U-S-WHTE-X

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	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°	8154
5°	8107
10°	8022
15°	7945
20°	7957
25°	7995
30°	8031
35°	8107
40°	8195
45°	8295
50°	6197
55°	1928
60°	1541
65°	1484
70°	1705
75°	2019
80°	2314
85°	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	4.4
10°-20°	215.8	12.4
20°-30°	331.8	19.0
30°-40°	413.0	23.7
40°-50°	433.3	24.9
50°-60°	133.9	7.7
60°-70°	63.5	3.6
70°-80°	53.6	3.1
80°-90°	21.9	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°	623.5	35.8
0°-40°	1036.5	59.5
0°-60°	1603.8	92.0
0°-90°	1742.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	810	
5°	802	76
15°	762	216
25°	720	332
35°	660	413
45°	582	433
55°	110	134
65°	62	63
75°	52	54
85°	20	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	809.8
2.5°	809.2
5°	802.1
7.5°	792.8
10°	784.6
12.5°	774.3
15°	762.2
17.5°	753.0
20°	742.6
22.5°	732.2
25°	719.6
27.5°	704.9
30°	690.7
32.5°	675.9
35°	659.5
37.5°	642.6
40°	623.5
42.5°	604.9
45°	582.5
47.5°	550.8
50°	395.6
52.5°	169.9
55°	109.8
57.5°	91.3
60°	76.5
62.5°	66.7
65°	62.3
67.5°	60.1
70°	57.9
72.5°	55.2
75°	51.9
77.5°	47.0
80°	39.9
82.5°	30.1
85°	19.7
87.5°	10.9
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	10.28	11.70	10.64	12.02	12.33	10.28	11.70	10.64	12.02	12.33
	3H	12.24	13.50	12.62	13.83	14.20	12.24	13.50	12.62	13.83	14.20
	4H	13.40	14.58	13.80	14.93	15.31	13.40	14.58	13.80	14.93	15.31
	6H	14.53	15.62	14.94	15.99	16.38	14.53	15.62	14.94	15.99	16.38
	8H	14.96	15.99	15.38	16.38	16.78	14.96	15.99	15.38	16.38	16.78
	12H	15.26	16.25	15.69	16.63	17.06	15.26	16.25	15.69	16.63	17.06
4H	2H	10.78	11.97	11.19	12.32	12.70	10.78	11.97	11.19	12.32	12.70
	3H	13.15	14.12	13.56	14.52	14.92	13.15	14.12	13.56	14.52	14.92
	4H	14.53	15.40	14.96	15.81	16.26	14.53	15.40	14.96	15.81	16.26
	6H	15.85	16.61	16.31	17.05	17.52	15.85	16.61	16.31	17.05	17.52
	8H	16.35	17.06	16.82	17.50	17.97	16.35	17.06	16.82	17.50	17.97
	12H	16.72	17.35	17.21	17.83	18.30	16.72	17.35	17.21	17.83	18.30
8H	4H	15.06	15.77	15.53	16.21	16.68	15.06	15.77	15.53	16.21	16.68
	6H	16.57	17.15	17.06	17.65	18.13	16.57	17.15	17.06	17.65	18.13
	8H	17.17	17.70	17.69	18.22	18.71	17.17	17.70	17.69	18.22	18.71
	12H	17.65	18.13	18.16	18.62	19.19	17.65	18.13	18.16	18.62	19.19
12H	4H	15.16	15.79	15.64	16.27	16.74	15.16	15.79	15.64	16.27	16.74
	6H	16.70	17.24	17.22	17.75	18.24	16.70	17.24	17.22	17.75	18.24
	8H	17.39	17.86	17.90	18.36	18.92	17.39	17.86	17.90	18.36	18.92