

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: P980343

Luminaire Tested: PRLX-243-930-43L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-43L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

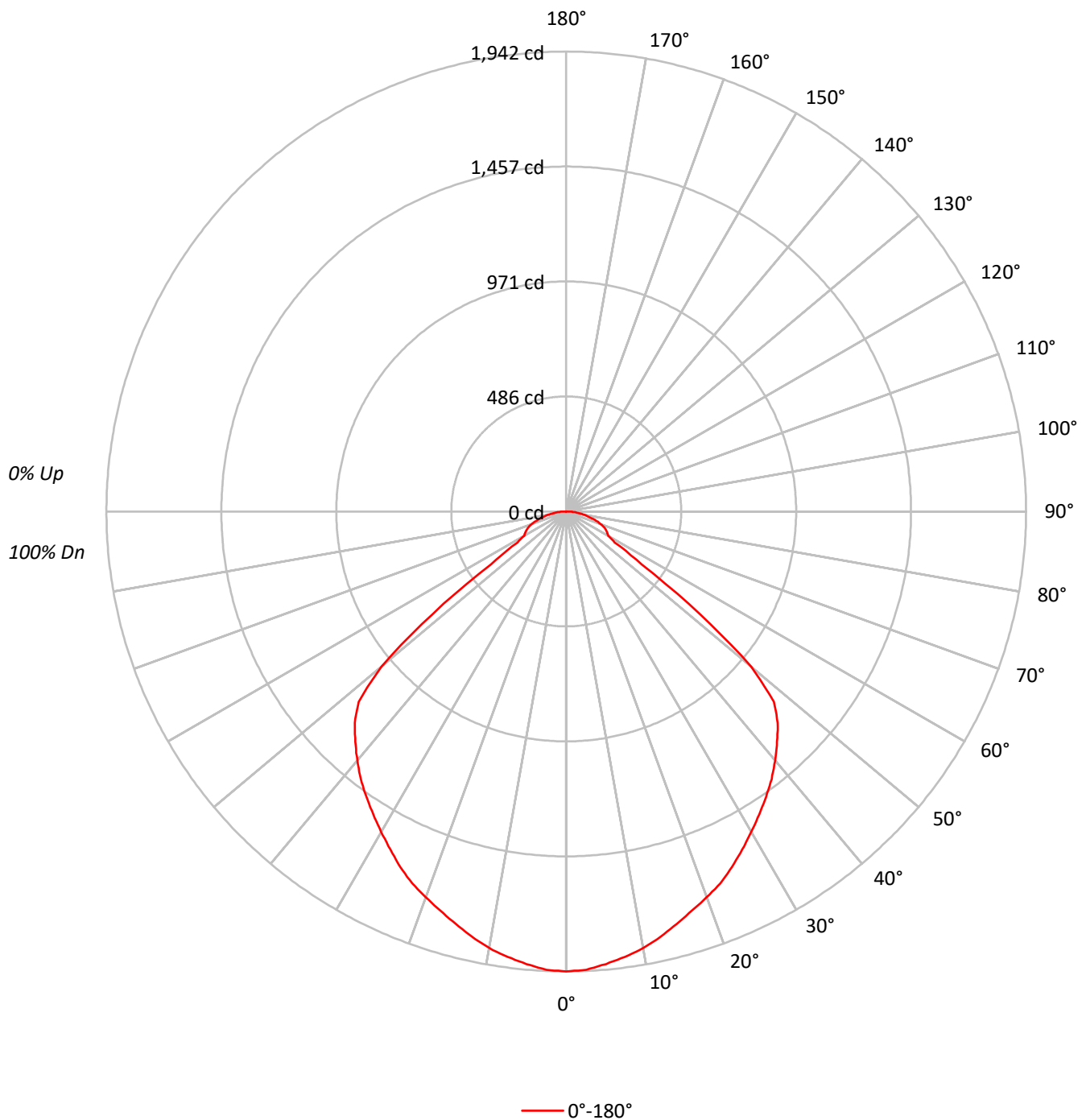
Lumens per Lamp: N/A
Luminaire Lumens: 4105.4 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9583
5°	9502
10°	9379
15°	9209
20°	9104
25°	9020
30°	8903
35°	8861
40°	8842
45°	8810
50°	7817
55°	3346
60°	2018
65°	2155
70°	2222
75°	2152
80°	2074
85°	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	4.4
10°-20°	509.2	12.4
20°-30°	763.0	18.6
30°-40°	921.1	22.4
40°-50°	958.2	23.3
50°-60°	431.1	10.5
60°-70°	180.9	4.4
70°-80°	119.6	2.9
80°-90°	40.6	1.0
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°	1453.8	35.4
0°-40°	2375.0	57.8
0°-60°	3764.2	91.7
0°-90°	4105.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1918	182
15°	1803	509
25°	1657	763
35°	1471	921
45°	1263	958
55°	389	431
65°	185	181
75°	113	120
85°	37	41
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1942.4
2.5°	1937.1
5°	1918.5
7.5°	1897.3
10°	1872.1
12.5°	1840.2
15°	1803.0
17.5°	1767.2
20°	1734.0
22.5°	1699.5
25°	1657.0
27.5°	1609.2
30°	1562.7
32.5°	1516.2
35°	1471.1
37.5°	1424.6
40°	1372.9
42.5°	1318.4
45°	1262.7
47.5°	1189.6
50°	1018.4
52.5°	711.7
55°	389.0
57.5°	243.0
60°	204.5
62.5°	195.2
65°	184.6
67.5°	171.3
70°	154.0
72.5°	134.1
75°	112.9
77.5°	92.9
80°	73.0
82.5°	54.4
85°	37.2
87.5°	21.2
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	11.60	13.04	11.96	13.36	13.67	11.60	13.04	11.96	13.36	13.67
	3H	13.69	14.97	14.07	15.30	15.67	13.69	14.97	14.07	15.30	15.67
	4H	14.52	15.72	14.92	16.07	16.45	14.52	15.72	14.92	16.07	16.45
	6H	15.16	16.27	15.58	16.64	17.03	15.16	16.27	15.58	16.64	17.03
	8H	15.40	16.45	15.82	16.84	17.24	15.40	16.45	15.82	16.84	17.24
	12H	15.58	16.58	16.01	16.96	17.39	15.58	16.58	16.01	16.96	17.39
4H	2H	12.26	13.46	12.66	13.81	14.19	12.26	13.46	12.66	13.81	14.19
	3H	14.60	15.58	15.01	15.99	16.39	14.60	15.58	15.01	15.99	16.39
	4H	15.56	16.44	16.00	16.86	17.30	15.56	16.44	16.00	16.86	17.30
	6H	16.34	17.11	16.80	17.55	18.02	16.34	17.11	16.80	17.55	18.02
	8H	16.63	17.34	17.10	17.79	18.26	16.63	17.34	17.10	17.79	18.26
	12H	16.87	17.50	17.35	17.98	18.46	16.87	17.50	17.35	17.98	18.46
8H	4H	15.92	16.63	16.38	17.08	17.55	15.92	16.63	16.38	17.08	17.55
	6H	16.84	17.43	17.34	17.92	18.40	16.84	17.43	17.34	17.92	18.40
	8H	17.21	17.75	17.73	18.26	18.75	17.21	17.75	17.73	18.26	18.75
	12H	17.55	18.03	18.06	18.52	19.09	17.55	18.03	18.06	18.52	19.09
12H	4H	15.95	16.59	16.44	17.07	17.54	15.95	16.59	16.44	17.07	17.54
	6H	16.91	17.45	17.42	17.96	18.45	16.91	17.45	17.42	17.96	18.45
	8H	17.35	17.83	17.86	18.33	18.89	17.35	17.83	17.86	18.33	18.89