

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: P979541

Luminaire Tested: PRLX-240-940-43L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979541
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-240-940-43L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

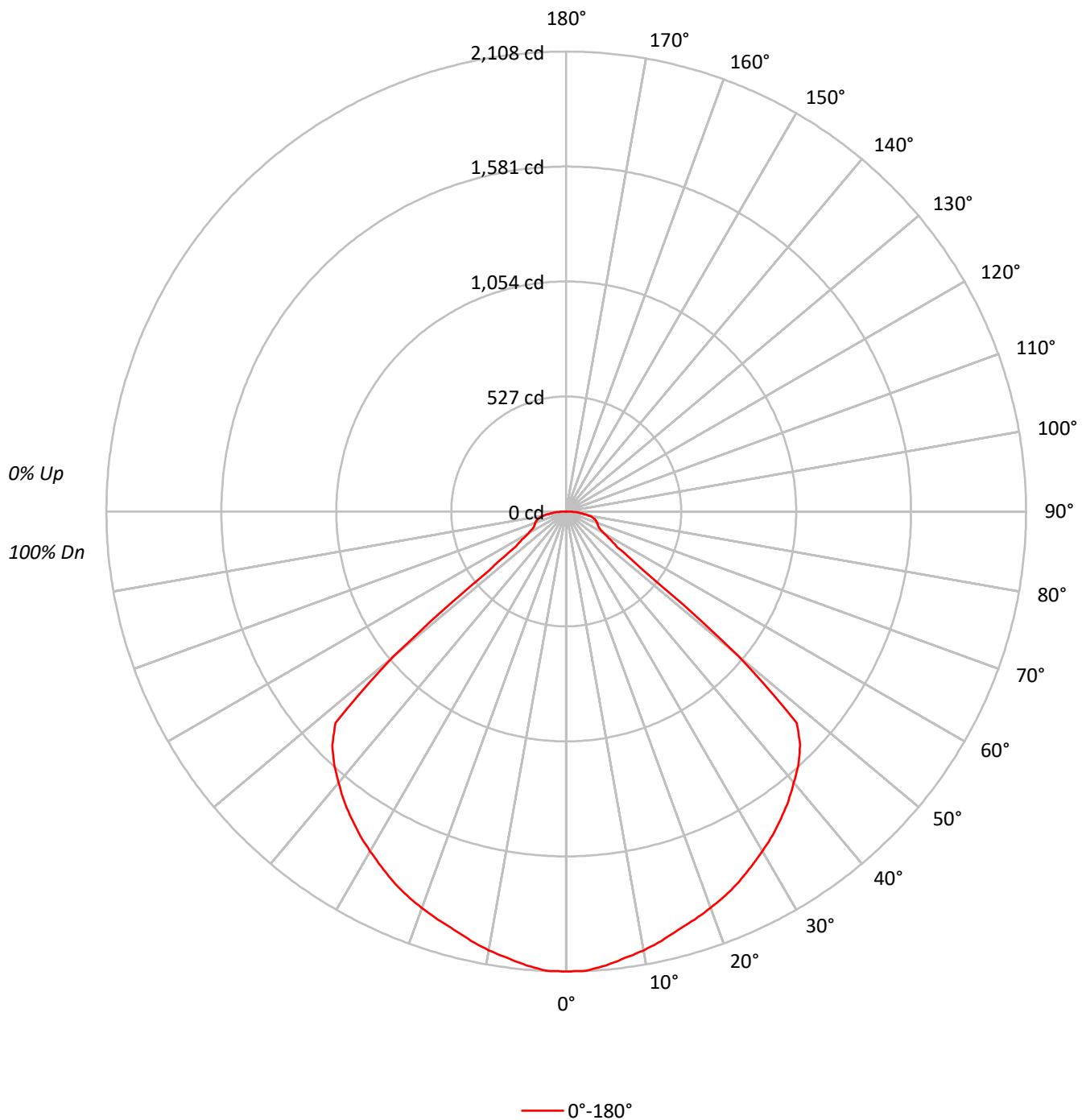
Lumens per Lamp: N/A
Luminaire Lumens: 4537.8 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	21229
5°	21109
10°	20888
15°	20688
20°	20717
25°	20817
30°	20908
35°	21108
40°	21337
45°	21596
50°	16135
55°	5021
60°	4011
65°	3864
70°	4440
75°	5260
80°	6025
85°	5915

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 21596 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	4.4
10°-20°	561.7	12.4
20°-30°	863.8	19.0
30°-40°	1075.4	23.7
40°-50°	1128.1	24.9
50°-60°	348.8	7.7
60°-70°	165.3	3.6
70°-80°	139.6	3.1
80°-90°	57.1	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°	1623.4	35.8
0°-40°	2698.8	59.5
0°-60°	4175.7	92.0
0°-90°	4537.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2108	
5°	2088	198
15°	1985	562
25°	1874	864
35°	1717	1075
45°	1517	1128
55°	286	349
65°	162	165
75°	135	140
85°	51	57
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2108.4
2.5°	2107.0
5°	2088.5
7.5°	2064.3
10°	2043.0
12.5°	2015.9
15°	1984.6
17.5°	1960.5
20°	1933.4
22.5°	1906.4
25°	1873.7
27.5°	1835.3
30°	1798.3
32.5°	1759.9
35°	1717.2
37.5°	1673.1
40°	1623.3
42.5°	1574.9
45°	1516.6
47.5°	1434.1
50°	1030.0
52.5°	442.5
55°	286.0
57.5°	237.6
60°	199.2
62.5°	173.6
65°	162.2
67.5°	156.5
70°	150.8
72.5°	143.7
75°	135.2
77.5°	122.4
80°	103.9
82.5°	78.2
85°	51.2
87.5°	28.5
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	13.60	15.02	13.96	15.34	15.65	13.60	15.02	13.96	15.34	15.65
	3H	15.56	16.83	15.94	17.16	17.52	15.56	16.83	15.94	17.16	17.52
	4H	16.72	17.90	17.12	18.25	18.63	16.72	17.90	17.12	18.25	18.63
	6H	17.85	18.94	18.27	19.31	19.70	17.85	18.94	18.27	19.31	19.70
	8H	18.28	19.31	18.71	19.70	20.11	18.28	19.31	18.71	19.70	20.11
	12H	18.58	19.57	19.02	19.96	20.39	18.58	19.57	19.02	19.96	20.39
4H	2H	14.11	15.29	14.51	15.64	16.02	14.11	15.29	14.51	15.64	16.02
	3H	16.47	17.44	16.89	17.85	18.25	16.47	17.44	16.89	17.85	18.25
	4H	17.85	18.72	18.29	19.14	19.58	17.85	18.72	18.29	19.14	19.58
	6H	19.18	19.93	19.64	20.38	20.84	19.18	19.93	19.64	20.38	20.84
	8H	19.67	20.38	20.14	20.83	21.30	19.67	20.38	20.14	20.83	21.30
	12H	20.04	20.67	20.53	21.15	21.63	20.04	20.67	20.53	21.15	21.63
8H	4H	18.39	19.09	18.85	19.54	20.01	18.39	19.09	18.85	19.54	20.01
	6H	19.89	20.48	20.39	20.97	21.45	19.89	20.48	20.39	20.97	21.45
	8H	20.49	21.03	21.01	21.54	22.03	20.49	21.03	21.01	21.54	22.03
	12H	20.97	21.45	21.49	21.94	22.51	20.97	21.45	21.49	21.94	22.51
12H	4H	18.48	19.11	18.96	19.59	20.06	18.48	19.11	18.96	19.59	20.06
	6H	20.03	20.56	20.55	21.07	21.56	20.03	20.56	20.55	21.07	21.56
	8H	20.71	21.19	21.22	21.68	22.25	20.71	21.19	21.22	21.68	22.25