

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979461

Luminaire Tested: PRLX-240-935-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979461
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-240-935-LL5-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4375.0 lumens
Efficiency: N/A
Efficacy: 148.3 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

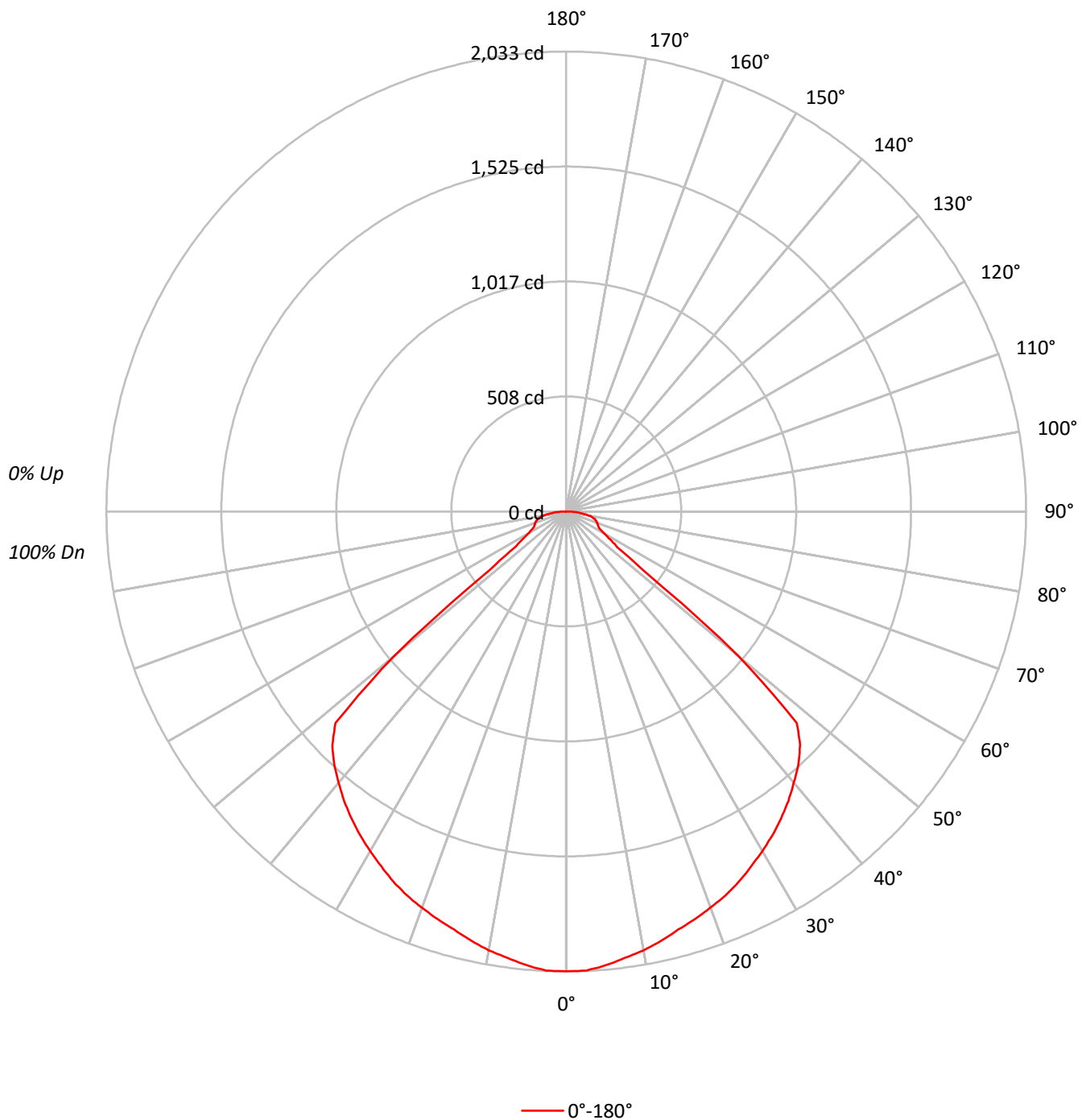
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20469
5°	20353
10°	20140
15°	19947
20°	19974
25°	20070
30°	20158
35°	20351
40°	20572
45°	20821
50°	15557
55°	4840
60°	3866
65°	3726
70°	4281
75°	5069
80°	5804
85°	5707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 20821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.4
10°-20°	541.6	12.4
20°-30°	832.9	19.0
30°-40°	1036.8	23.7
40°-50°	1087.7	24.9
50°-60°	336.3	7.7
60°-70°	159.4	3.6
70°-80°	134.6	3.1
80°-90°	55.0	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°	1565.2	35.8
0°-40°	2602.0	59.5
0°-60°	4026.0	92.0
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2033	
5°	2014	191
15°	1914	542
25°	1806	833
35°	1656	1037
45°	1462	1088
55°	276	336
65°	156	159
75°	130	135
85°	49	55
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2032.9
2.5°	2031.5
5°	2013.7
7.5°	1990.3
10°	1969.8
12.5°	1943.7
15°	1913.5
17.5°	1890.2
20°	1864.1
22.5°	1838.1
25°	1806.5
27.5°	1769.5
30°	1733.8
32.5°	1696.8
35°	1655.6
37.5°	1613.1
40°	1565.1
42.5°	1518.5
45°	1462.2
47.5°	1382.7
50°	993.1
52.5°	426.6
55°	275.7
57.5°	229.1
60°	192.0
62.5°	167.3
65°	156.4
67.5°	150.9
70°	145.4
72.5°	138.5
75°	130.3
77.5°	118.0
80°	100.1
82.5°	75.4
85°	49.4
87.5°	27.4
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	13.47	14.90	13.84	15.21	15.53	13.47	14.90	13.84	15.21	15.53
	3H	15.43	16.70	15.81	17.03	17.39	15.43	16.70	15.81	17.03	17.39
	4H	16.59	17.78	16.99	18.12	18.51	16.59	17.78	16.99	18.12	18.51
	6H	17.73	18.81	18.14	19.18	19.58	17.73	18.81	18.14	19.18	19.58
	8H	18.15	19.19	18.58	19.58	19.98	18.15	19.19	18.58	19.58	19.98
	12H	18.46	19.45	18.89	19.83	20.26	18.46	19.45	18.89	19.83	20.26
4H	2H	13.98	15.16	14.38	15.51	15.89	13.98	15.16	14.38	15.51	15.89
	3H	16.35	17.32	16.76	17.72	18.12	16.35	17.32	16.76	17.72	18.12
	4H	17.73	18.59	18.16	19.01	19.45	17.73	18.59	18.16	19.01	19.45
	6H	19.05	19.80	19.51	20.25	20.71	19.05	19.80	19.51	20.25	20.71
	8H	19.55	20.25	20.01	20.70	21.17	19.55	20.25	20.01	20.70	21.17
	12H	19.92	20.55	20.40	21.03	21.50	19.92	20.55	20.40	21.03	21.50
8H	4H	18.26	18.97	18.72	19.41	19.88	18.26	18.97	18.72	19.41	19.88
	6H	19.76	20.35	20.26	20.84	21.32	19.76	20.35	20.26	20.84	21.32
	8H	20.37	20.90	20.88	21.41	21.90	20.37	20.90	20.88	21.41	21.90
	12H	20.85	21.32	21.36	21.82	22.38	20.85	21.32	21.36	21.82	22.38
12H	4H	18.35	18.98	18.84	19.46	19.94	18.35	18.98	18.84	19.46	19.94
	6H	19.90	20.43	20.42	20.95	21.44	19.90	20.43	20.42	20.95	21.44
	8H	20.58	21.06	21.09	21.55	22.12	20.58	21.06	21.09	21.55	22.12