

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: P979771

Luminaire Tested: PRLX-241-935-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-935-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

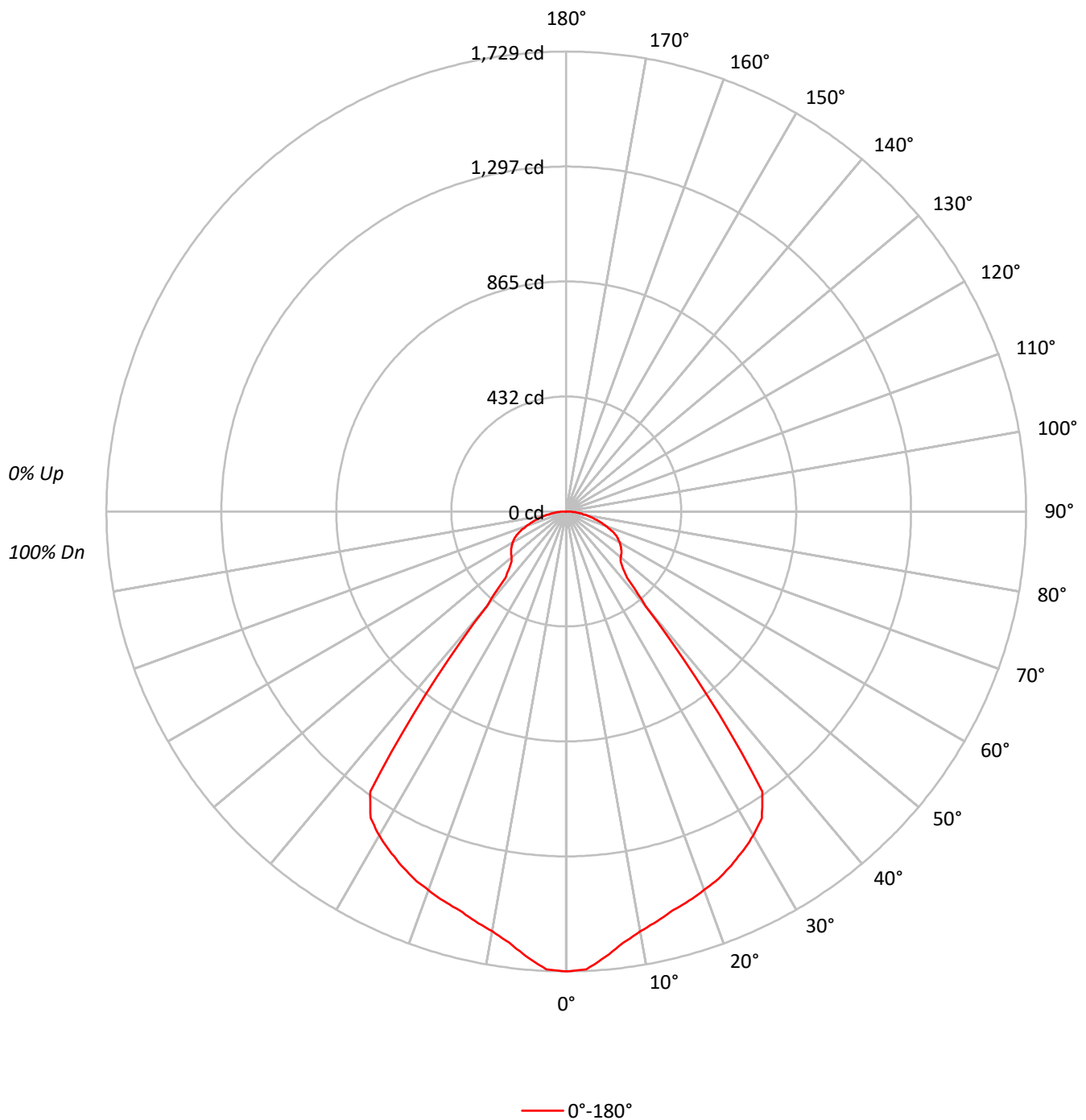
Lumens per Lamp: N/A
Luminaire Lumens: 2789.8 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	98	100	98	95		97	94	92		93
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	66	87	78	71	65	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65
6	78	66	59	53	76	65	58	53	64	57	52		62	56	52		61
7	73	61	54	48	71	60	53	48	59	53	48		58	52	48		56
8	69	57	49	44	67	56	49	44	55	48	44		54	48	44		53
9	65	53	46	41	63	52	45	41	51	45	40		50	44	40		49
10	61	49	42	38	60	49	42	37	48	42	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13329
5°	13016
10°	12548
15°	12387
20°	12429
25°	12487
30°	12525
35°	12093
40°	4669
45°	3282
50°	3214
55°	3400
60°	3577
65°	3685
70°	3561
75°	3366
80°	3152
85°	2919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 65°

Luminance: 3685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	5.7
10°-20°	439.8	15.8
20°-30°	676.8	24.3
30°-40°	688.5	24.7
40°-50°	246.6	8.8
50°-60°	225.6	8.1
60°-70°	197.1	7.1
70°-80°	119.9	4.3
80°-90°	37.7	1.4
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°	1274.5	45.7
0°-40°	1963.0	70.4
0°-60°	2435.2	87.3
0°-90°	2789.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1729	
5°	1682	158
15°	1552	440
25°	1468	677
35°	1285	688
45°	301	247
55°	253	226
65°	202	197
75°	113	120
85°	33	38
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1729
2.5°	1723
5°	1682
7.5°	1636
10°	1603
12.5°	1578
15°	1552
17.5°	1535
20°	1515
22.5°	1495
25°	1468
27.5°	1438
30°	1407
32.5°	1368
35°	1285
37.5°	870
40°	464
42.5°	338
45°	301
47.5°	278
50°	268
52.5°	261
55°	253
57.5°	243
60°	232
62.5°	219
65°	202
67.5°	180
70°	158
72.5°	135
75°	113
77.5°	92
80°	71
82.5°	52
85°	33
87.5°	18
90°	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	14.71	16.03	15.07	16.34	16.66	14.71	16.03	15.07	16.34	16.66
	3H	16.87	18.05	17.25	18.38	18.75	16.87	18.05	17.25	18.38	18.75
	4H	17.65	18.76	18.05	19.11	19.49	17.65	18.76	18.05	19.11	19.49
	6H	18.24	19.26	18.65	19.63	20.03	18.24	19.26	18.65	19.63	20.03
	8H	18.44	19.41	18.87	19.80	20.21	18.44	19.41	18.87	19.80	20.21
	12H	18.58	19.51	19.01	19.89	20.32	18.58	19.51	19.01	19.89	20.32
4H	2H	15.46	16.57	15.86	16.92	17.30	15.46	16.57	15.86	16.92	17.30
	3H	17.77	18.70	18.19	19.10	19.51	17.77	18.70	18.19	19.10	19.51
	4H	18.67	19.51	19.11	19.93	20.37	18.67	19.51	19.11	19.93	20.37
	6H	19.39	20.11	19.85	20.56	21.02	19.39	20.11	19.85	20.56	21.02
	8H	19.64	20.31	20.10	20.76	21.23	19.64	20.31	20.10	20.76	21.23
	12H	19.82	20.42	20.31	20.90	21.38	19.82	20.42	20.31	20.90	21.38
8H	4H	18.99	19.67	19.46	20.12	20.59	18.99	19.67	19.46	20.12	20.59
	6H	19.85	20.40	20.35	20.90	21.38	19.85	20.40	20.35	20.90	21.38
	8H	20.19	20.68	20.71	21.20	21.69	20.19	20.68	20.71	21.20	21.69
	12H	20.47	20.90	20.98	21.40	21.97	20.47	20.90	20.98	21.40	21.97
12H	4H	19.02	19.62	19.51	20.10	20.58	19.02	19.62	19.51	20.10	20.58
	6H	19.91	20.41	20.43	20.92	21.41	19.91	20.41	20.43	20.92	21.41
	8H	20.32	20.75	20.83	21.24	21.81	20.32	20.75	20.83	21.24	21.81