

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: P866043

Luminaire Tested: PRLX-2001-M-935-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

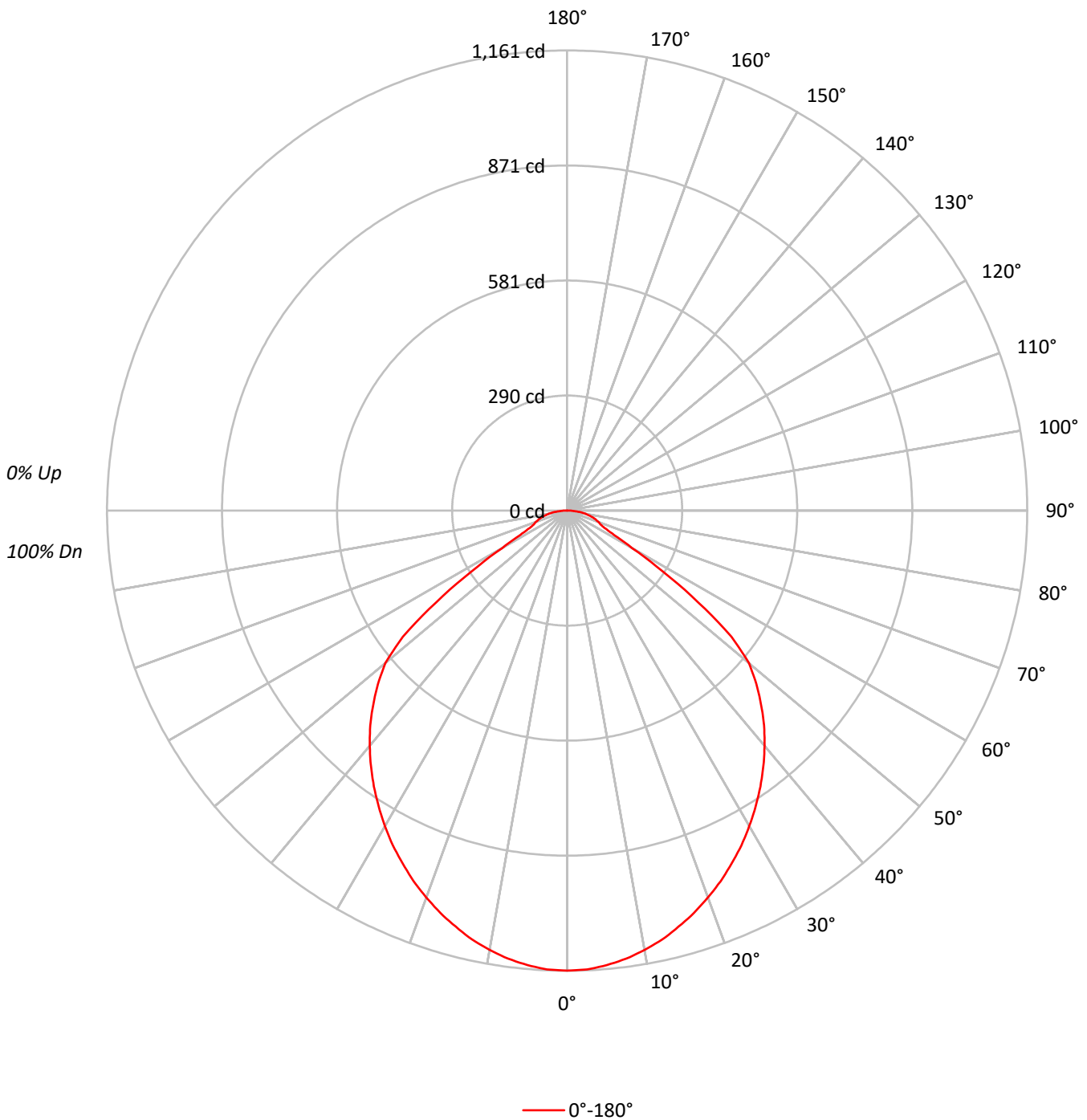
Lumens per Lamp: N/A
Luminaire Lumens: 2500.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9850
5°	9806
10°	9697
15°	9548
20°	9379
25°	9198
30°	9007
35°	8806
40°	8582
45°	8305
50°	7899
55°	5982
60°	3213
65°	2070
70°	2087
75°	2203
80°	2287
85°	2308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	4.4
10°-20°	306.4	12.3
20°-30°	452.7	18.1
30°-40°	531.5	21.3
40°-50°	532.9	21.3
50°-60°	356.8	14.3
60°-70°	114.6	4.6
70°-80°	70.1	2.8
80°-90°	25.9	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°	868.2	34.7
0°-40°	1399.7	56.0
0°-60°	2289.4	91.6
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1161	
5°	1151	109
15°	1087	306
25°	982	453
35°	850	532
45°	692	533
55°	404	357
65°	103	115
75°	67	70
85°	24	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1160.7
2.5°	1158.7
5°	1151.2
7.5°	1140.4
10°	1125.4
12.5°	1108.5
15°	1086.8
17.5°	1064.4
20°	1038.6
22.5°	1012.2
25°	982.3
27.5°	952.5
30°	919.2
32.5°	885.3
35°	850.0
37.5°	813.4
40°	774.7
42.5°	735.4
45°	692.0
47.5°	647.9
50°	598.3
52.5°	522.4
55°	404.3
57.5°	287.0
60°	189.3
62.5°	133.6
65°	103.1
67.5°	90.9
70°	84.1
72.5°	76.0
75°	67.2
77.5°	57.0
80°	46.8
82.5°	36.0
85°	23.7
87.5°	12.2
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	16.23	17.70	16.59	18.02	18.33	16.23	17.70	16.59	18.02	18.33
	3H	16.71	18.02	17.09	18.35	18.71	16.71	18.02	17.09	18.35	18.71
	4H	17.03	18.25	17.43	18.60	18.98	17.03	18.25	17.43	18.60	18.98
	6H	17.36	18.48	17.77	18.85	19.24	17.36	18.48	17.77	18.85	19.24
	8H	17.50	18.57	17.92	18.96	19.36	17.50	18.57	17.92	18.96	19.36
	12H	17.60	18.63	18.03	19.01	19.44	17.60	18.63	18.03	19.01	19.44
4H	2H	16.26	17.49	16.66	17.84	18.22	16.26	17.49	16.66	17.84	18.22
	3H	16.97	17.97	17.38	18.37	18.78	16.97	17.97	17.38	18.37	18.78
	4H	17.45	18.34	17.88	18.76	19.20	17.45	18.34	17.88	18.76	19.20
	6H	17.94	18.72	18.40	19.17	19.63	17.94	18.72	18.40	19.17	19.63
	8H	18.15	18.88	18.62	19.33	19.80	18.15	18.88	18.62	19.33	19.80
	12H	18.33	18.98	18.81	19.46	19.93	18.33	18.98	18.81	19.46	19.93
8H	4H	17.61	18.34	18.07	18.78	19.25	17.61	18.34	18.07	18.78	19.25
	6H	18.24	18.85	18.74	19.34	19.82	18.24	18.85	18.74	19.34	19.82
	8H	18.54	19.09	19.05	19.60	20.09	18.54	19.09	19.05	19.60	20.09
	12H	18.80	19.30	19.32	19.79	20.35	18.80	19.30	19.32	19.79	20.35
12H	4H	17.62	18.27	18.11	18.75	19.23	17.62	18.27	18.11	18.75	19.23
	6H	18.28	18.83	18.80	19.35	19.83	18.28	18.83	18.80	19.35	19.83
	8H	18.64	19.14	19.16	19.63	20.19	18.64	19.14	19.16	19.63	20.19