

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: P865915

Luminaire Tested: PRLX-2001-M-927-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865915
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-927-25L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

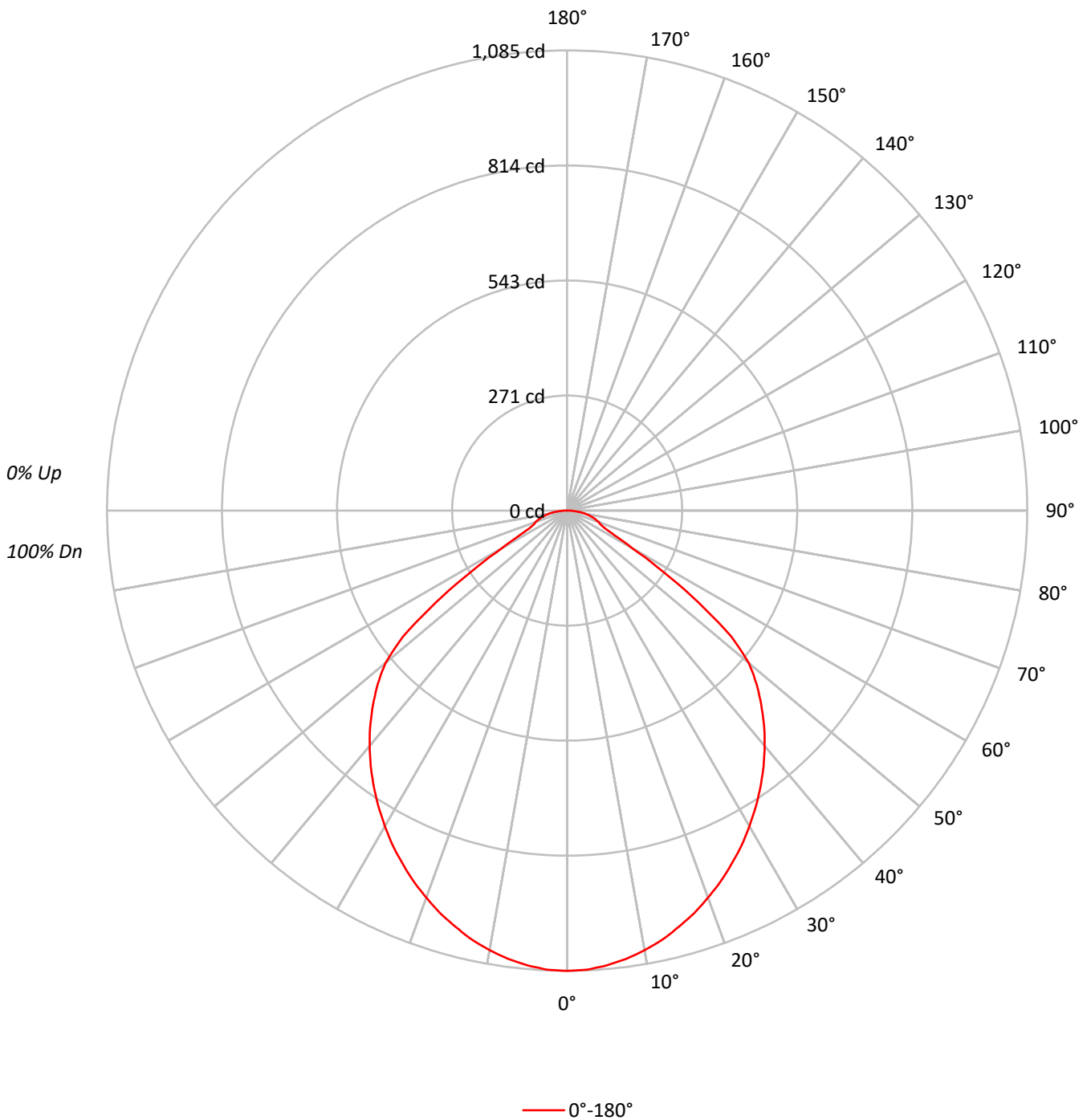
Lumens per Lamp: N/A
Luminaire Lumens: 2337.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	9210
5°	9169
10°	9068
15°	8928
20°	8770
25°	8600
30°	8422
35°	8234
40°	8025
45°	7765
50°	7386
55°	5594
60°	3004
65°	1936
70°	1953
75°	2059
80°	2140
85°	2162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	4.4
10°-20°	286.5	12.3
20°-30°	423.3	18.1
30°-40°	497.0	21.3
40°-50°	498.2	21.3
50°-60°	333.6	14.3
60°-70°	107.2	4.6
70°-80°	65.5	2.8
80°-90°	24.2	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°	811.8	34.7
0°-40°	1308.8	56.0
0°-60°	2140.7	91.6
0°-90°	2337.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1085	
5°	1076	102
15°	1016	287
25°	918	423
35°	795	497
45°	647	498
55°	378	334
65°	96	107
75°	63	66
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1085.3
2.5°	1083.4
5°	1076.4
7.5°	1066.3
10°	1052.3
12.5°	1036.5
15°	1016.2
17.5°	995.3
20°	971.1
22.5°	946.4
25°	918.5
27.5°	890.6
30°	859.5
32.5°	827.8
35°	794.8
37.5°	760.6
40°	724.4
42.5°	687.6
45°	647.0
47.5°	605.8
50°	559.5
52.5°	488.4
55°	378.1
57.5°	268.3
60°	177.0
62.5°	125.0
65°	96.4
67.5°	85.0
70°	78.7
72.5°	71.0
75°	62.8
77.5°	53.3
80°	43.8
82.5°	33.6
85°	22.2
87.5°	11.4
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	15.99	17.47	16.36	17.78	18.10	15.99	17.47	16.36	17.78	18.10
	3H	16.47	17.78	16.85	18.11	18.48	16.47	17.78	16.85	18.11	18.48
	4H	16.80	18.02	17.20	18.37	18.75	16.80	18.02	17.20	18.37	18.75
	6H	17.12	18.25	17.54	18.62	19.01	17.12	18.25	17.54	18.62	19.01
	8H	17.26	18.33	17.69	18.72	19.12	17.26	18.33	17.69	18.72	19.12
	12H	17.37	18.39	17.80	18.77	19.20	17.37	18.39	17.80	18.77	19.20
4H	2H	16.03	17.25	16.43	17.60	17.98	16.03	17.25	16.43	17.60	17.98
	3H	16.74	17.74	17.15	18.14	18.54	16.74	17.74	17.15	18.14	18.54
	4H	17.21	18.11	17.65	18.53	18.97	17.21	18.11	17.65	18.53	18.97
	6H	17.71	18.49	18.17	18.93	19.40	17.71	18.49	18.17	18.93	19.40
	8H	17.92	18.65	18.38	19.09	19.56	17.92	18.65	18.38	19.09	19.56
	12H	18.09	18.74	18.58	19.22	19.69	18.09	18.74	18.58	19.22	19.69
8H	4H	17.37	18.10	17.84	18.55	19.02	17.37	18.10	17.84	18.55	19.02
	6H	18.01	18.61	18.51	19.11	19.58	18.01	18.61	18.51	19.11	19.58
	8H	18.30	18.85	18.82	19.36	19.85	18.30	18.85	18.82	19.36	19.85
	12H	18.57	19.06	19.08	19.55	20.12	18.57	19.06	19.08	19.55	20.12
12H	4H	17.39	18.04	17.87	18.52	18.99	17.39	18.04	17.87	18.52	18.99
	6H	18.05	18.60	18.57	19.11	19.60	18.05	18.60	18.57	19.11	19.60
	8H	18.41	18.90	18.92	19.39	19.96	18.41	18.90	18.92	19.39	19.96