

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: P866103

Luminaire Tested: PRLX-2001-M-940-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

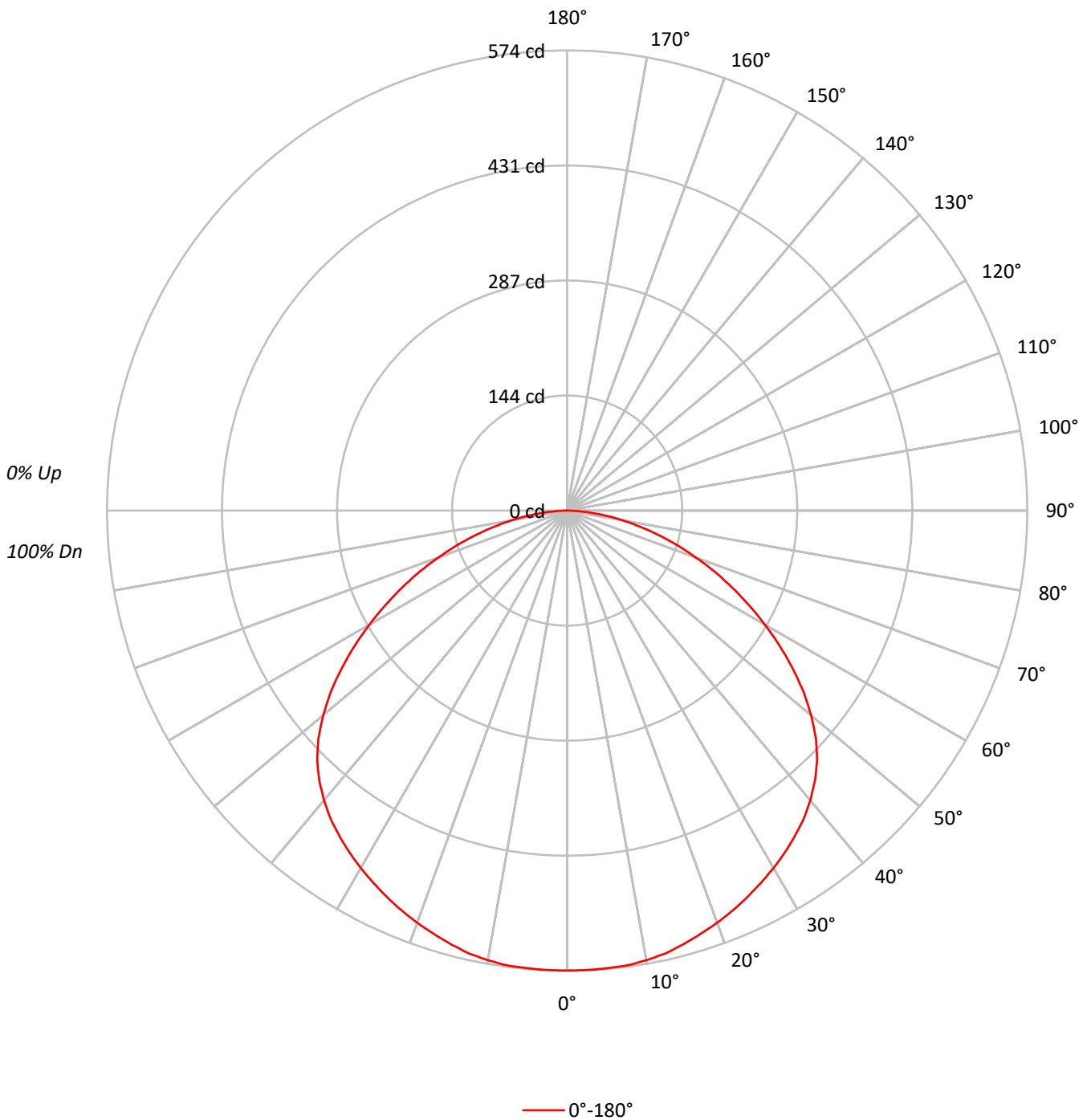
Lumens per Lamp: N/A
Luminaire Lumens: 1798.5 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4868
5°	4881
10°	4906
15°	4920
20°	4941
25°	4981
30°	5044
35°	5132
40°	5225
45°	5291
50°	5242
55°	5078
60°	4837
65°	4556
70°	4223
75°	3885
80°	3440
85°	2794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5291 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.0
10°-20°	158.2	8.8
20°-30°	245.6	13.7
30°-40°	310.3	17.3
40°-50°	338.7	18.8
50°-60°	306.5	17.0
60°-70°	224.9	12.5
70°-80°	125.6	7.0
80°-90°	34.2	1.9
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°	458.4	25.5
0°-40°	768.7	42.7
0°-60°	1413.9	78.6
0°-90°	1798.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	574	
5°	573	55
15°	560	158
25°	532	246
35°	495	310
45°	441	339
55°	343	306
65°	227	225
75°	118	126
85°	29	34
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	573.7
2.5°	573.7
5°	573.0
7.5°	572.3
10°	569.4
12.5°	565.8
15°	560.0
17.5°	553.6
20°	547.1
22.5°	539.9
25°	532.0
27.5°	523.4
30°	514.8
32.5°	505.5
35°	495.4
37.5°	484.7
40°	471.7
42.5°	457.4
45°	440.9
47.5°	420.8
50°	397.1
52.5°	371.9
55°	343.2
57.5°	314.5
60°	285.0
62.5°	255.6
65°	226.9
67.5°	198.9
70°	170.2
72.5°	144.3
75°	118.5
77.5°	93.3
80°	70.4
82.5°	48.8
85°	28.7
87.5°	12.9
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	17.90	19.56	18.26	19.88	20.19	17.90	19.56	18.26	19.88	20.19
	3H	19.59	21.09	19.96	21.42	21.78	19.59	21.09	19.96	21.42	21.78
	4H	20.22	21.63	20.61	21.98	22.36	20.22	21.63	20.61	21.98	22.36
	6H	20.67	21.99	21.08	22.35	22.74	20.67	21.99	21.08	22.35	22.74
	8H	20.81	22.07	21.24	22.46	22.86	20.81	22.07	21.24	22.46	22.86
	12H	20.90	22.11	21.33	22.49	22.92	20.90	22.11	21.33	22.49	22.92
4H	2H	18.50	19.92	18.90	20.27	20.64	18.50	19.92	18.90	20.27	20.64
	3H	20.41	21.60	20.82	22.00	22.40	20.41	21.60	20.82	22.00	22.40
	4H	21.17	22.24	21.60	22.66	23.09	21.17	22.24	21.60	22.66	23.09
	6H	21.75	22.69	22.20	23.13	23.58	21.75	22.69	22.20	23.13	23.58
	8H	21.94	22.82	22.40	23.26	23.72	21.94	22.82	22.40	23.26	23.72
	12H	22.07	22.86	22.55	23.34	23.81	22.07	22.86	22.55	23.34	23.81
8H	4H	21.46	22.34	21.92	22.79	23.25	21.46	22.34	21.92	22.79	23.25
	6H	22.16	22.89	22.65	23.38	23.85	22.16	22.89	22.65	23.38	23.85
	8H	22.42	23.08	22.93	23.58	24.07	22.42	23.08	22.93	23.58	24.07
	12H	22.62	23.20	23.12	23.69	24.25	22.62	23.20	23.12	23.69	24.25
12H	4H	21.50	22.29	21.97	22.76	23.23	21.50	22.29	21.97	22.76	23.23
	6H	22.21	22.87	22.72	23.38	23.86	22.21	22.87	22.72	23.38	23.86
	8H	22.52	23.11	23.03	23.60	24.16	22.52	23.11	23.03	23.60	24.16