

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: P866359

Luminaire Tested: PRLX-2002-M-940-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-940-25L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

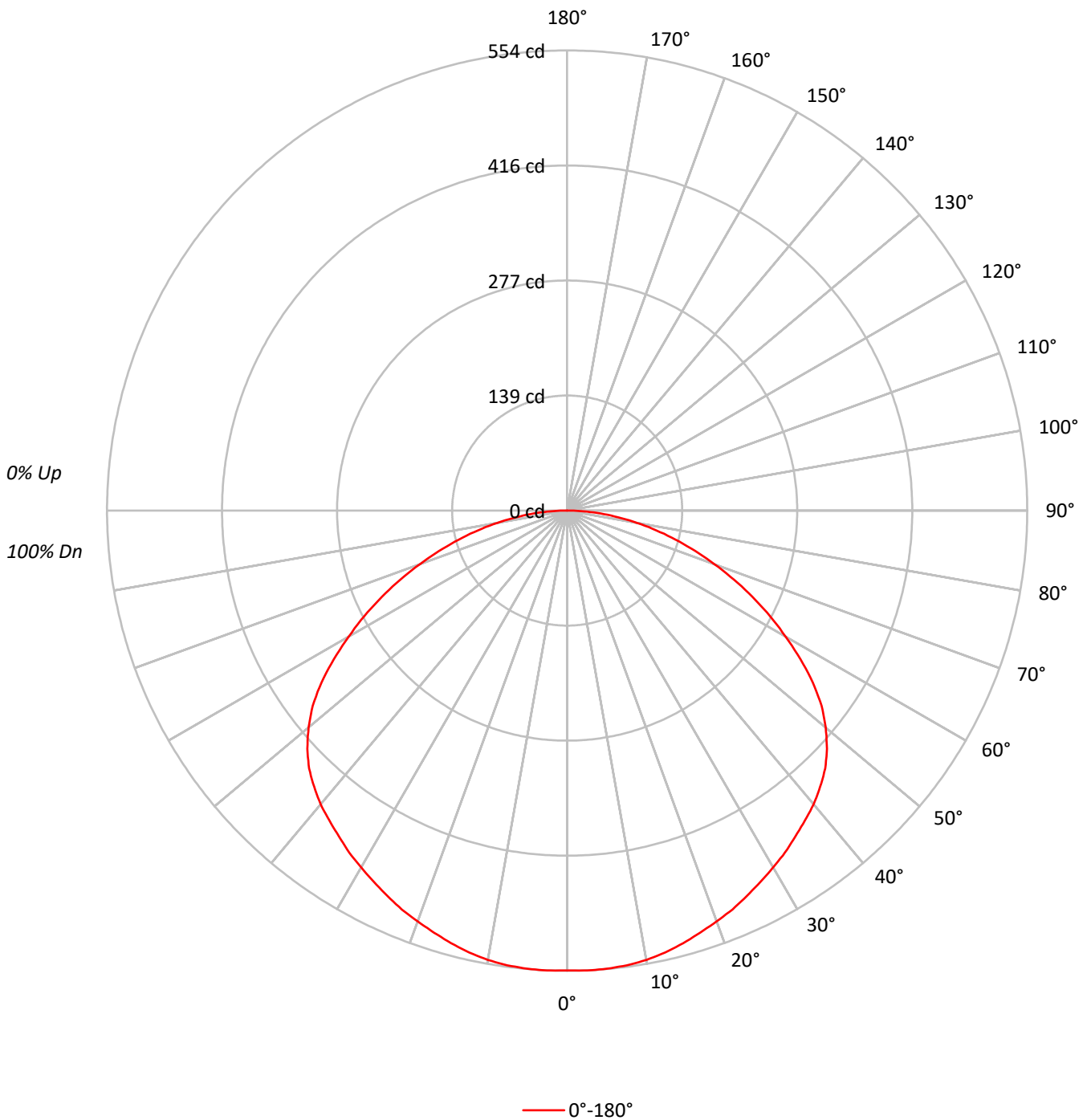
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.3 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	4404
5°	4421
10°	4438
15°	4441
20°	4456
25°	4494
30°	4557
35°	4651
40°	4795
45°	4944
50°	5030
55°	5010
60°	4832
65°	4637
70°	4392
75°	4150
80°	3913
85°	3670

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 5048 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	2.9
10°-20°	152.4	8.3
20°-30°	236.4	12.9
30°-40°	300.5	16.4
40°-50°	338.0	18.4
50°-60°	321.1	17.5
60°-70°	243.9	13.3
70°-80°	143.4	7.8
80°-90°	44.8	2.4
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°	441.5	24.1
0°-40°	742.0	40.5
0°-60°	1401.2	76.4
0°-90°	1833.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	554	
5°	554	53
15°	539	152
25°	512	236
35°	479	301
45°	439	338
55°	361	321
65°	246	244
75°	135	143
85°	40	45
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	553.6
2.5°	554.3
5°	553.6
7.5°	552.1
10°	549.3
12.5°	545.0
15°	539.2
17.5°	532.8
20°	526.3
22.5°	519.8
25°	511.9
27.5°	504.0
30°	496.1
32.5°	488.2
35°	478.9
37.5°	470.3
40°	461.7
42.5°	450.9
45°	439.4
47.5°	424.3
50°	406.4
52.5°	386.3
55°	361.2
57.5°	333.2
60°	303.7
62.5°	275.7
65°	246.3
67.5°	217.6
70°	188.8
72.5°	161.6
75°	135.0
77.5°	109.9
80°	85.4
82.5°	61.7
85°	40.2
87.5°	20.1
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	17.97	19.66	18.33	19.98	20.29	17.97	19.66	18.33	19.98	20.29
	3H	19.77	21.31	20.14	21.63	21.99	19.77	21.31	20.14	21.63	21.99
	4H	20.46	21.91	20.86	22.26	22.63	20.46	21.91	20.86	22.26	22.63
	6H	21.01	22.36	21.42	22.72	23.11	21.01	22.36	21.42	22.72	23.11
	8H	21.20	22.49	21.63	22.88	23.28	21.20	22.49	21.63	22.88	23.28
	12H	21.35	22.58	21.78	22.96	23.39	21.35	22.58	21.78	22.96	23.39
4H	2H	18.61	20.06	19.00	20.40	20.78	18.61	20.06	19.00	20.40	20.78
	3H	20.63	21.85	21.04	22.25	22.65	20.63	21.85	21.04	22.25	22.65
	4H	21.46	22.57	21.89	22.98	23.42	21.46	22.57	21.89	22.98	23.42
	6H	22.15	23.12	22.60	23.56	24.01	22.15	23.12	22.60	23.56	24.01
	8H	22.40	23.31	22.86	23.75	24.21	22.40	23.31	22.86	23.75	24.21
	12H	22.60	23.42	23.08	23.89	24.36	22.60	23.42	23.08	23.89	24.36
8H	4H	21.80	22.71	22.26	23.15	23.62	21.80	22.71	22.26	23.15	23.62
	6H	22.62	23.39	23.12	23.87	24.34	22.62	23.39	23.12	23.87	24.34
	8H	22.96	23.64	23.46	24.14	24.63	22.96	23.64	23.46	24.14	24.63
	12H	23.24	23.85	23.75	24.34	24.90	23.24	23.85	23.75	24.34	24.90
12H	4H	21.85	22.67	22.32	23.14	23.61	21.85	22.67	22.32	23.14	23.61
	6H	22.70	23.38	23.20	23.89	24.37	22.70	23.38	23.20	23.89	24.37
	8H	23.09	23.70	23.60	24.19	24.75	23.09	23.70	23.60	24.19	24.75