

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: P866295

Luminaire Tested: PRLX-2002-M-935-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866295  
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: Pentalux  
Catalog Number: PRLX-2002-M-935-25L-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

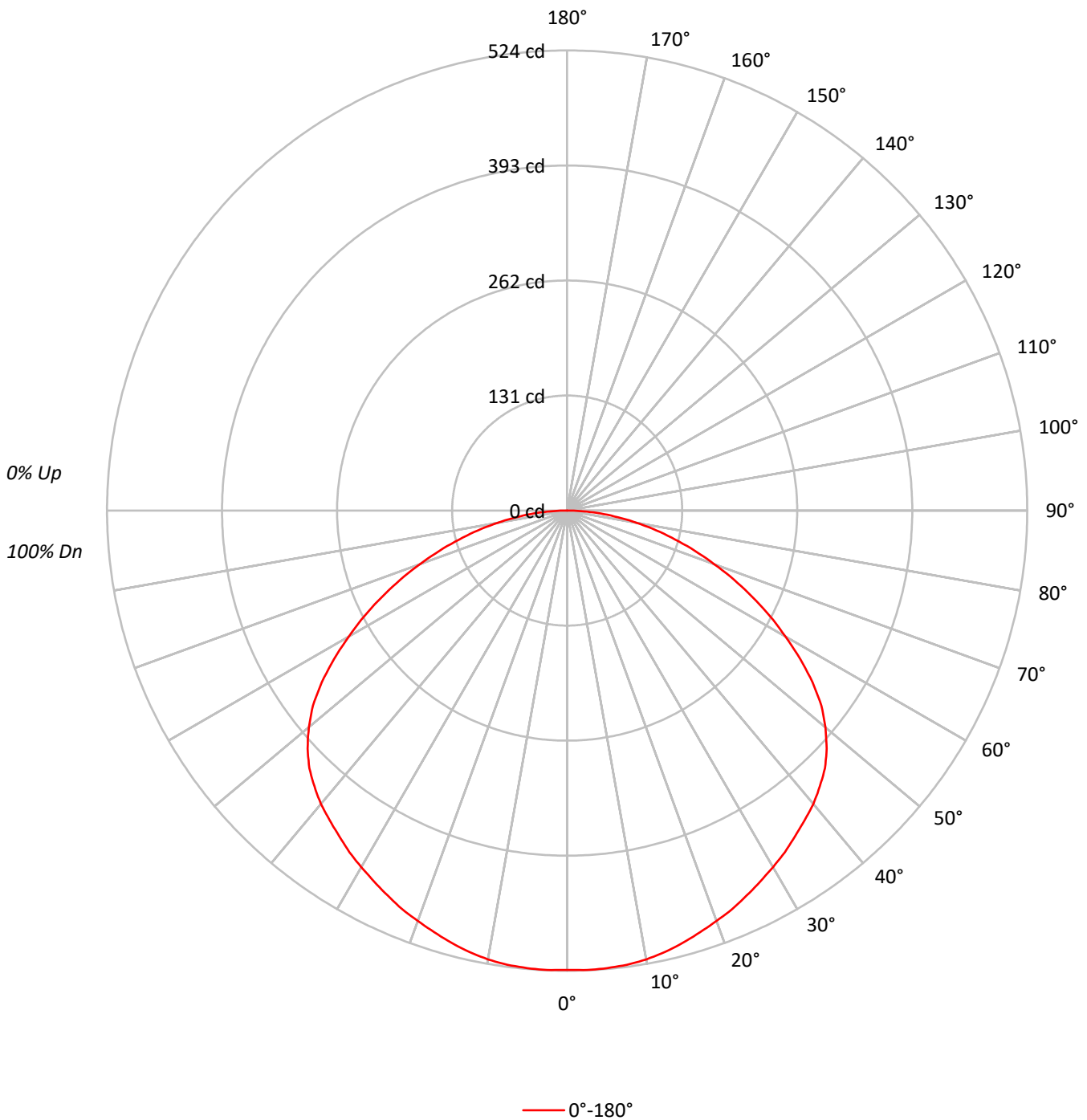
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1732.1 lumens  
Efficiency: N/A  
Efficacy: 79.8 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°	4161
5°	4177
10°	4193
15°	4196
20°	4210
25°	4246
30°	4307
35°	4395
40°	4530
45°	4671
50°	4753
55°	4733
60°	4567
65°	4381
70°	4150
75°	3919
80°	3697
85°	3469

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 4770 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	2.9
10°-20°	144.0	8.3
20°-30°	223.4	12.9
30°-40°	283.9	16.4
40°-50°	319.3	18.4
50°-60°	303.4	17.5
60°-70°	230.5	13.3
70°-80°	135.4	7.8
80°-90°	42.4	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°	417.2	24.1
0°-40°	701.1	40.5
0°-60°	1323.9	76.4
0°-90°	1732.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1732.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	523	
5°	523	50
15°	510	144
25°	484	223
35°	452	284
45°	415	319
55°	341	303
65°	233	230
75°	128	135
85°	38	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	523.0
2.5°	523.7
5°	523.0
7.5°	521.7
10°	519.0
12.5°	514.9
15°	509.5
17.5°	503.4
20°	497.3
22.5°	491.2
25°	483.7
27.5°	476.2
30°	468.8
32.5°	461.3
35°	452.5
37.5°	444.3
40°	436.2
42.5°	426.0
45°	415.2
47.5°	400.9
50°	384.0
52.5°	365.0
55°	341.2
57.5°	314.8
60°	287.0
62.5°	260.5
65°	232.7
67.5°	205.6
70°	178.4
72.5°	152.6
75°	127.5
77.5°	103.8
80°	80.7
82.5°	58.3
85°	38.0
87.5°	19.0
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	17.77	19.47	18.14	19.78	20.10	17.77	19.47	18.14	19.78	20.10
	3H	19.57	21.11	19.95	21.43	21.79	19.57	21.11	19.95	21.43	21.79
	4H	20.26	21.72	20.66	22.06	22.44	20.26	21.72	20.66	22.06	22.44
	6H	20.81	22.16	21.22	22.52	22.91	20.81	22.16	21.22	22.52	22.91
	8H	21.01	22.29	21.43	22.68	23.08	21.01	22.29	21.43	22.68	23.08
	12H	21.15	22.39	21.58	22.77	23.20	21.15	22.39	21.58	22.77	23.20
4H	2H	18.41	19.86	18.81	20.21	20.58	18.41	19.86	18.81	20.21	20.58
	3H	20.43	21.66	20.84	22.05	22.45	20.43	21.66	20.84	22.05	22.45
	4H	21.26	22.37	21.69	22.78	23.22	21.26	22.37	21.69	22.78	23.22
	6H	21.95	22.92	22.40	23.36	23.82	21.95	22.92	22.40	23.36	23.82
	8H	22.20	23.11	22.66	23.55	24.02	22.20	23.11	22.66	23.55	24.02
	12H	22.40	23.22	22.88	23.69	24.16	22.40	23.22	22.88	23.69	24.16
8H	4H	21.60	22.51	22.06	22.95	23.42	21.60	22.51	22.06	22.95	23.42
	6H	22.43	23.19	22.92	23.67	24.15	22.43	23.19	22.92	23.67	24.15
	8H	22.76	23.44	23.26	23.95	24.43	22.76	23.44	23.26	23.95	24.43
	12H	23.05	23.65	23.55	24.14	24.70	23.05	23.65	23.55	24.14	24.70
12H	4H	21.65	22.47	22.13	22.94	23.41	21.65	22.47	22.13	22.94	23.41
	6H	22.50	23.18	23.00	23.69	24.17	22.50	23.18	23.00	23.69	24.17
	8H	22.90	23.50	23.40	23.99	24.55	22.90	23.50	23.40	23.99	24.55