

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: P865659

Luminaire Tested: PRLX-2002-S-935-05L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-935-05L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

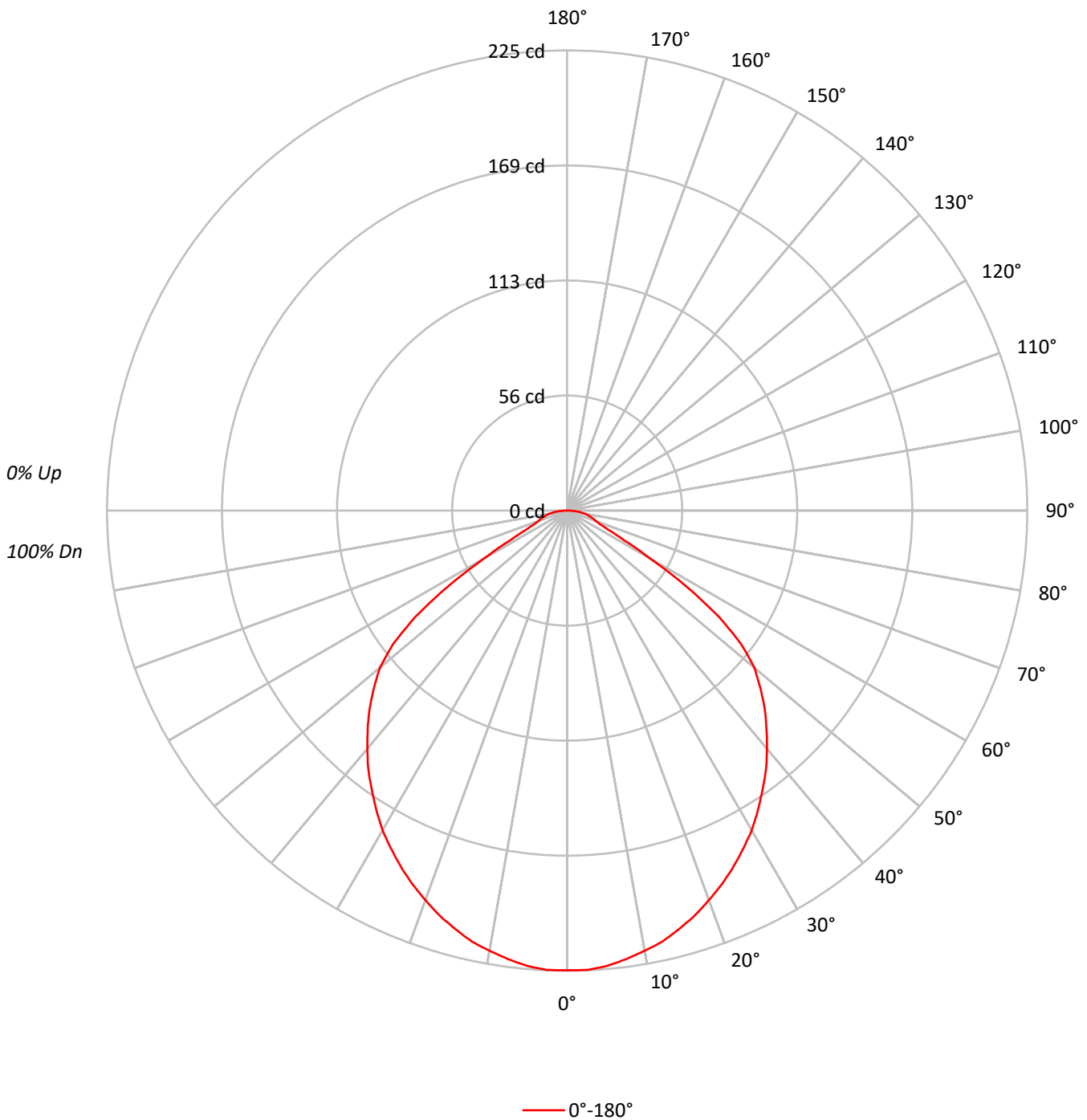
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 499.1 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.2  
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	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	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°
0°	4223
5°	4214
10°	4168
15°	4117
20°	4052
25°	3986
30°	3915
35°	3818
40°	3727
45°	3629
50°	3489
55°	2964
60°	1766
65°	987
70°	818
75°	856
80°	930
85°	970

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3629 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.2	4.2
10°-20°	59.7	12.0
20°-30°	88.6	17.7
30°-40°	104.3	20.9
40°-50°	105.1	21.1
50°-60°	77.9	15.6
60°-70°	25.0	5.0
70°-80°	12.6	2.5
80°-90°	4.9	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°	169.4	33.9
0°-40°	273.7	54.8
0°-60°	456.7	91.5
0°-90°	499.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	225	
5°	224	21
15°	212	60
25°	192	89
35°	166	104
45°	137	105
55°	90	78
65°	22	25
75°	12	13
85°	4	5
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	224.8
2.5°	224.8
5°	223.5
7.5°	221.2
10°	218.5
12.5°	215.8
15°	211.7
17.5°	207.6
20°	202.7
22.5°	197.7
25°	192.3
27.5°	186.4
30°	180.5
32.5°	173.7
35°	166.5
37.5°	159.7
40°	152.0
42.5°	144.3
45°	136.6
47.5°	128.0
50°	119.4
52.5°	107.2
55°	90.5
57.5°	69.2
60°	47.0
62.5°	31.2
65°	22.2
67.5°	17.2
70°	14.9
72.5°	13.6
75°	11.8
77.5°	10.4
80°	8.6
82.5°	6.8
85°	4.5
87.5°	2.3
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	14.69	16.18	15.06	16.50	16.81	14.69	16.18	15.06	16.50	16.81
	3H	14.94	16.26	15.32	16.59	16.95	14.94	16.26	15.32	16.59	16.95
	4H	15.10	16.34	15.50	16.68	17.06	15.10	16.34	15.50	16.68	17.06
	6H	15.29	16.43	15.71	16.80	17.19	15.29	16.43	15.71	16.80	17.19
	8H	15.38	16.46	15.81	16.85	17.25	15.38	16.46	15.81	16.85	17.25
	12H	15.45	16.48	15.88	16.86	17.29	15.45	16.48	15.88	16.86	17.29
4H	2H	14.69	15.93	15.09	16.28	16.66	14.69	15.93	15.09	16.28	16.66
	3H	15.08	16.09	15.49	16.49	16.89	15.08	16.09	15.49	16.49	16.89
	4H	15.34	16.24	15.77	16.66	17.10	15.34	16.24	15.77	16.66	17.10
	6H	15.67	16.45	16.12	16.89	17.36	15.67	16.45	16.12	16.89	17.36
	8H	15.81	16.55	16.28	16.99	17.46	15.81	16.55	16.28	16.99	17.46
	12H	15.94	16.59	16.42	17.07	17.55	15.94	16.59	16.42	17.07	17.55
8H	4H	15.41	16.14	15.87	16.59	17.05	15.41	16.14	15.87	16.59	17.05
	6H	15.84	16.45	16.34	16.94	17.42	15.84	16.45	16.34	16.94	17.42
	8H	16.06	16.61	16.58	17.12	17.61	16.06	16.61	16.58	17.12	17.61
	12H	16.27	16.77	16.78	17.26	17.82	16.27	16.77	16.78	17.26	17.82
12H	4H	15.41	16.06	15.89	16.54	17.01	15.41	16.06	15.89	16.54	17.01
	6H	15.86	16.41	16.37	16.92	17.41	15.86	16.41	16.37	16.92	17.41
	8H	16.14	16.63	16.65	17.12	17.69	16.14	16.63	16.65	17.12	17.69