

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: P865712

Luminaire Tested: PRLX-2002-S-940-15L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-940-15L-L-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

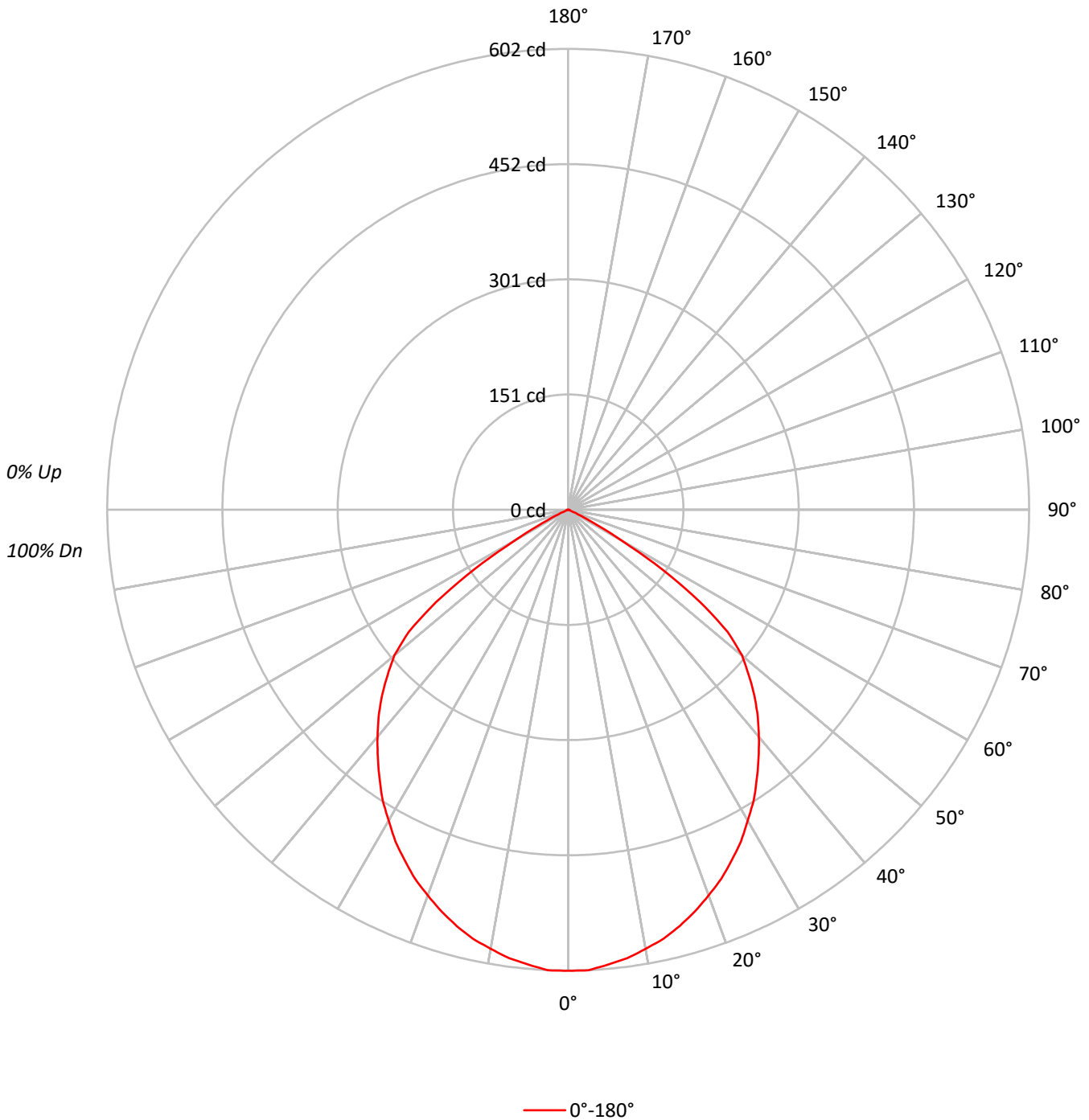
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1186.1 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

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

	0°
0°	11312
5°	11248
10°	11111
15°	10947
20°	10719
25°	10473
30°	10168
35°	9849
40°	9499
45°	9136
50°	8656
55°	6894
60°	3005
65°	622
70°	77
75°	102
80°	151
85°	302

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9136 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	4.8
10°-20°	158.5	13.4
20°-30°	232.7	19.6
30°-40°	268.6	22.6
40°-50°	264.7	22.3
50°-60°	179.1	15.1
60°-70°	23.2	2.0
70°-80°	1.5	0.1
80°-90°	1.3	0.1
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°	447.7	37.7
0°-40°	716.3	60.4
0°-60°	1160.1	97.8
0°-90°	1186.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	602	
5°	596	57
15°	563	159
25°	505	233
35°	430	269
45°	344	265
55°	210	179
65°	14	23
75°	1	1
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	602.2
2.5°	602.2
5°	596.5
7.5°	590.9
10°	582.5
12.5°	574.1
15°	562.9
17.5°	550.2
20°	536.2
22.5°	522.1
25°	505.3
27.5°	488.5
30°	468.8
32.5°	450.6
35°	429.5
37.5°	408.5
40°	387.4
42.5°	366.3
45°	343.9
47.5°	320.0
50°	296.2
52.5°	262.5
55°	210.5
57.5°	146.0
60°	80.0
62.5°	37.9
65°	14.0
67.5°	2.8
70°	1.4
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
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	16.91	18.32	17.28	18.63	18.95	16.91	18.32	17.28	18.63	18.95
	3H	16.80	18.03	17.18	18.36	18.72	16.80	18.03	17.18	18.36	18.72
	4H	16.73	17.87	17.13	18.22	18.60	16.73	17.87	17.13	18.22	18.60
	6H	16.66	17.70	17.07	18.07	18.47	16.66	17.70	17.07	18.07	18.47
	8H	16.62	17.61	17.05	18.00	18.40	16.62	17.61	17.05	18.00	18.40
	12H	16.58	17.53	17.01	17.91	18.34	16.58	17.53	17.01	17.91	18.34
4H	2H	16.75	17.89	17.15	18.24	18.62	16.75	17.89	17.15	18.24	18.62
	3H	16.63	17.55	17.04	17.95	18.36	16.63	17.55	17.04	17.95	18.36
	4H	16.55	17.36	16.99	17.78	18.23	16.55	17.36	16.99	17.78	18.23
	6H	16.48	17.18	16.94	17.62	18.09	16.48	17.18	16.94	17.62	18.09
	8H	16.42	17.08	16.89	17.52	17.99	16.42	17.08	16.89	17.52	17.99
	12H	16.38	16.96	16.86	17.44	17.92	16.38	16.96	16.86	17.44	17.92
8H	4H	16.42	17.07	16.89	17.52	17.99	16.42	17.07	16.89	17.52	17.99
	6H	16.32	16.86	16.82	17.35	17.83	16.32	16.86	16.82	17.35	17.83
	8H	16.25	16.74	16.77	17.26	17.75	16.25	16.74	16.77	17.26	17.75
	12H	16.21	16.65	16.72	17.15	17.71	16.21	16.65	16.72	17.15	17.71
12H	4H	16.37	16.95	16.86	17.43	17.91	16.37	16.95	16.86	17.43	17.91
	6H	16.25	16.74	16.77	17.25	17.75	16.25	16.74	16.77	17.25	17.75
	8H	16.20	16.65	16.72	17.14	17.71	16.20	16.65	16.72	17.14	17.71