

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: P865723

Luminaire Tested: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865723  
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: PrentaLux  
Catalog Number: PRLX-2002-S-940-20L-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 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

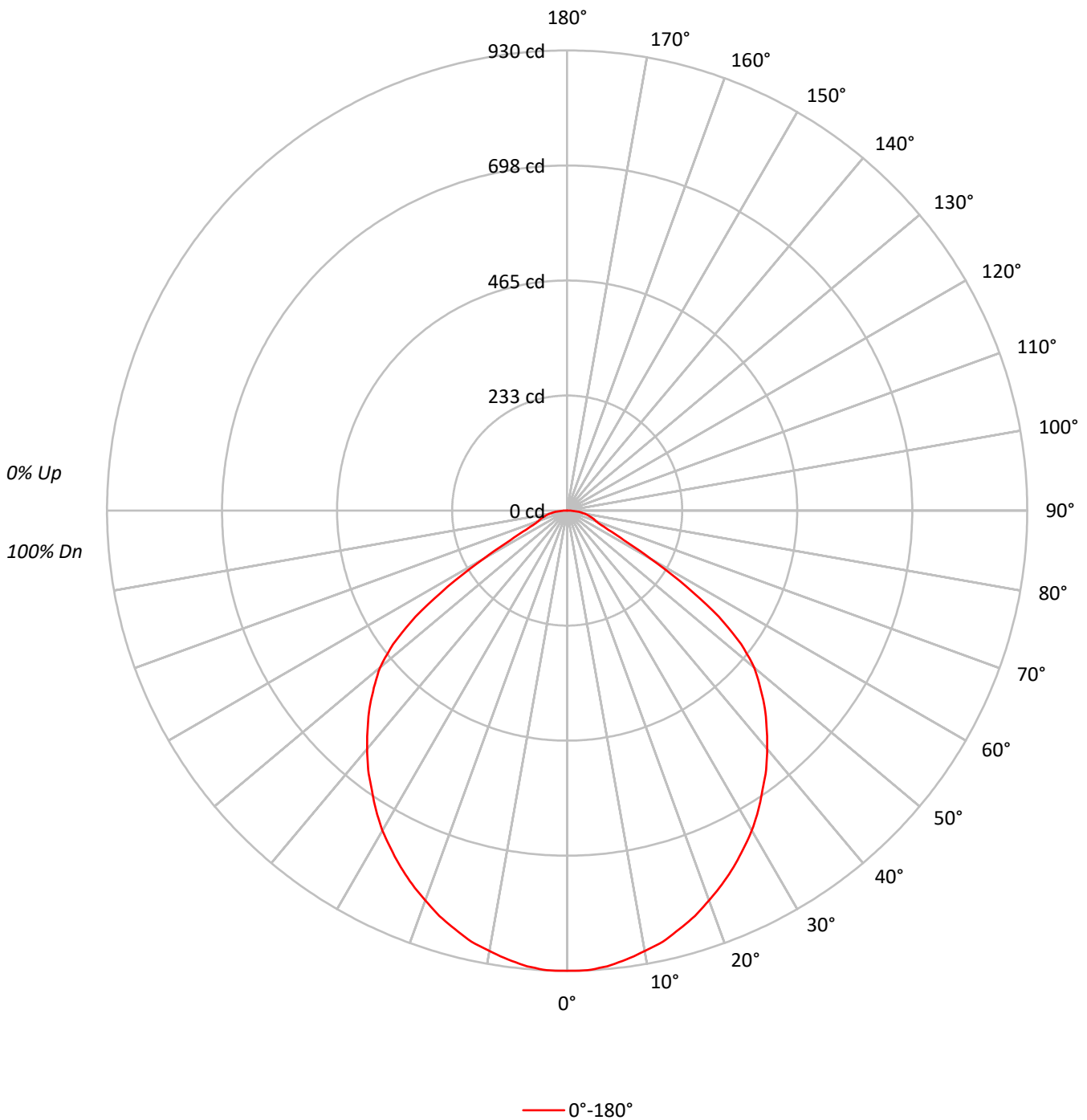
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2064.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 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): 21.8  
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

TEST NUMBER: P865723

CATALOG NUMBER: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P865723

CATALOG NUMBER: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

**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°	17471
5°	17432
10°	17241
15°	17034
20°	16759
25°	16486
30°	16196
35°	15793
40°	15419
45°	15015
50°	14439
55°	12258
60°	7311
65°	4076
70°	3394
75°	3534
80°	3851
85°	4030

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15015 cd/sqm

TEST NUMBER: P865723

CATALOG NUMBER: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	4.2
10°-20°	247.0	12.0
20°-30°	366.4	17.7
30°-40°	431.4	20.9
40°-50°	434.8	21.1
50°-60°	322.3	15.6
60°-70°	103.4	5.0
70°-80°	51.9	2.5
80°-90°	20.1	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°	700.9	33.9
0°-40°	1132.3	54.8
0°-60°	1889.4	91.5
0°-90°	2064.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	930	
5°	924	88
15°	876	247
25°	795	366
35°	689	431
45°	565	435
55°	374	322
65°	92	103
75°	49	52
85°	19	20
90°	0	

TEST NUMBER: P865723

CATALOG NUMBER: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	930.1
2.5°	930.1
5°	924.5
7.5°	915.2
10°	903.9
12.5°	892.7
15°	875.9
17.5°	859.0
20°	838.4
22.5°	817.8
25°	795.4
27.5°	771.1
30°	746.7
32.5°	718.7
35°	688.7
37.5°	660.6
40°	628.8
42.5°	597.0
45°	565.2
47.5°	529.6
50°	494.1
52.5°	443.5
55°	374.3
57.5°	286.3
60°	194.6
62.5°	129.1
65°	91.7
67.5°	71.1
70°	61.8
72.5°	56.1
75°	48.7
77.5°	43.0
80°	35.6
82.5°	28.1
85°	18.7
87.5°	9.4
90°	0.0



TEST NUMBER: P865723  
 CATALOG NUMBER: PRLX-2002-S-940-20L-L-U-S-X-X-WHHR-X

**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	19.63	21.12	19.99	21.43	21.75	19.63	21.12	19.99	21.43	21.75
	3H	19.87	21.19	20.25	21.52	21.89	19.87	21.19	20.25	21.52	21.89
	4H	20.03	21.27	20.43	21.62	22.00	20.03	21.27	20.43	21.62	22.00
	6H	20.23	21.36	20.64	21.73	22.12	20.23	21.36	20.64	21.73	22.12
	8H	20.31	21.39	20.74	21.78	22.19	20.31	21.39	20.74	21.78	22.19
	12H	20.38	21.42	20.81	21.80	22.23	20.38	21.42	20.81	21.80	22.23
4H	2H	19.63	20.86	20.03	21.21	21.59	19.63	20.86	20.03	21.21	21.59
	3H	20.01	21.02	20.42	21.42	21.82	20.01	21.02	20.42	21.42	21.82
	4H	20.27	21.17	20.70	21.59	22.03	20.27	21.17	20.70	21.59	22.03
	6H	20.60	21.38	21.06	21.83	22.29	20.60	21.38	21.06	21.83	22.29
	8H	20.74	21.48	21.21	21.92	22.39	20.74	21.48	21.21	21.92	22.39
	12H	20.87	21.53	21.36	22.01	22.48	20.87	21.53	21.36	22.01	22.48
8H	4H	20.34	21.07	20.80	21.52	21.99	20.34	21.07	20.80	21.52	21.99
	6H	20.77	21.38	21.27	21.87	22.35	20.77	21.38	21.27	21.87	22.35
	8H	20.99	21.55	21.51	22.06	22.55	20.99	21.55	21.51	22.06	22.55
	12H	21.20	21.70	21.72	22.19	22.76	21.20	21.70	21.72	22.19	22.76
12H	4H	20.34	20.99	20.82	21.47	21.95	20.34	20.99	20.82	21.47	21.95
	6H	20.79	21.34	21.31	21.85	22.34	20.79	21.34	21.31	21.85	22.34
	8H	21.07	21.56	21.58	22.06	22.62	21.07	21.56	21.58	22.06	22.62