

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: P866507

Luminaire Tested: PRLX-2004-M-930-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2004-M-930-45L-L-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,  
BELL WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

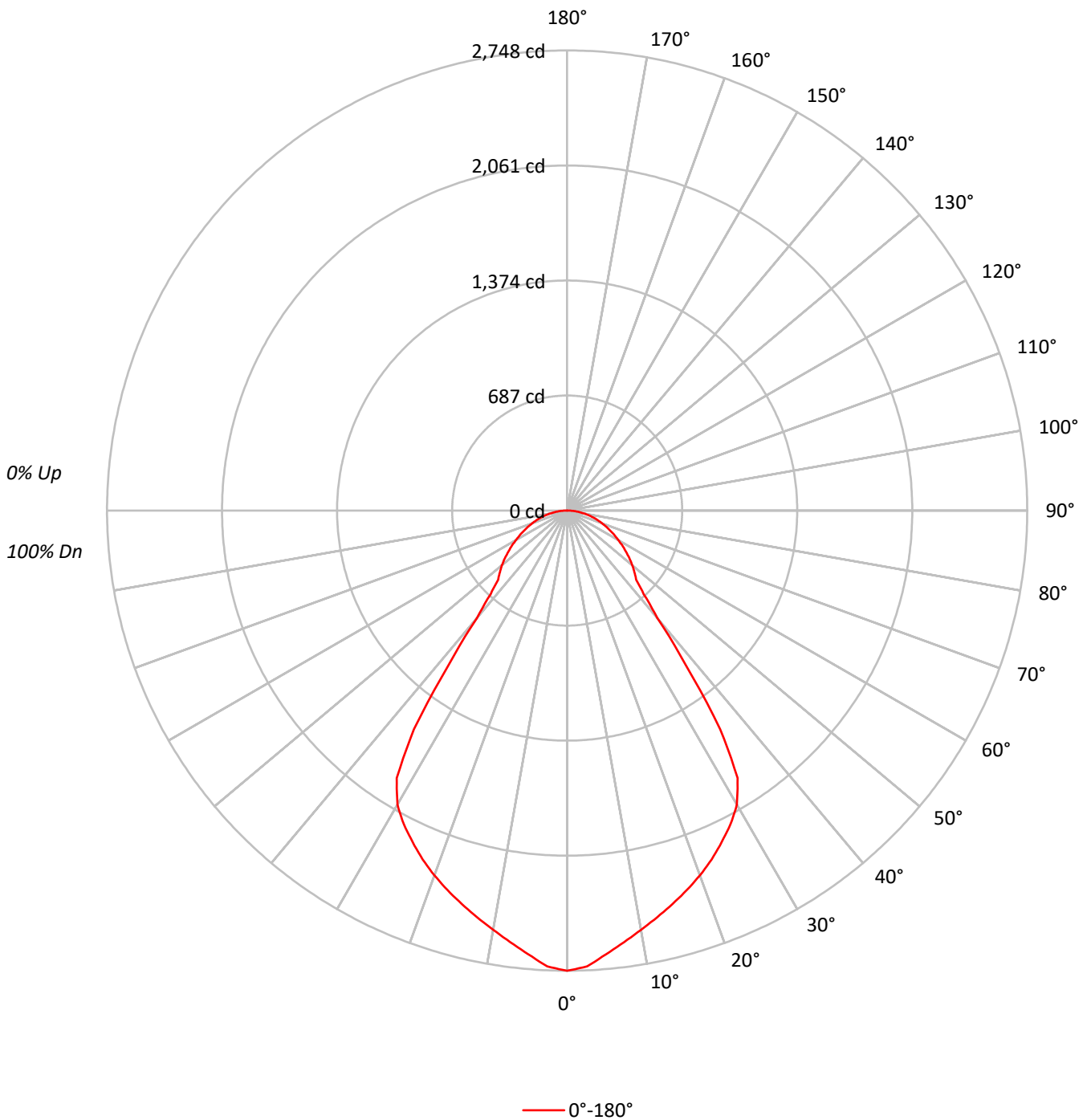
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4255.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.8  
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: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P866507

CATALOG NUMBER: PRLX-2004-M-930-45L-L-U-S-X-X-WHHR-X

### Luminous Intensity Polar Plot





TEST NUMBER: P866507

CATALOG NUMBER: PRLX-2004-M-930-45L-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	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64		73	68	64		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

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

	0°
0°	21862
5°	21238
10°	20536
15°	20031
20°	19628
25°	19173
30°	18626
35°	15483
40°	8713
45°	6558
50°	6296
55°	5960
60°	5618
65°	5341
70°	5150
75°	5004
80°	4879
85°	4811

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6558 cd/sqm

TEST NUMBER: P866507

CATALOG NUMBER: PRLX-2004-M-930-45L-L-U-S-X-X-WHHR-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	5.9
10°-20°	686.1	16.1
20°-30°	1005.6	23.6
30°-40°	939.5	22.1
40°-50°	476.5	11.2
50°-60°	384.7	9.0
60°-70°	282.8	6.6
70°-80°	172.1	4.0
80°-90°	57.5	1.4
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°	1942.0	45.6
0°-40°	2881.5	67.7
0°-60°	3742.7	88.0
0°-90°	4255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4255.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2748	
5°	2659	250
15°	2432	686
25°	2184	1006
35°	1594	939
45°	583	476
55°	430	385
65°	284	283
75°	163	172
85°	53	57
90°	0	

TEST NUMBER: P866507

CATALOG NUMBER: PRLX-2004-M-930-45L-L-U-S-X-X-WHHR-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2748.0
2.5°	2725.2
5°	2659.4
7.5°	2599.6
10°	2542.1
12.5°	2487.1
15°	2432.0
17.5°	2376.9
20°	2318.3
22.5°	2254.9
25°	2184.2
27.5°	2112.4
30°	2027.5
32.5°	1893.4
35°	1594.2
37.5°	1162.1
40°	839.0
42.5°	676.2
45°	582.9
47.5°	544.6
50°	508.7
52.5°	469.2
55°	429.7
57.5°	391.4
60°	353.1
62.5°	319.6
65°	283.7
67.5°	252.5
70°	221.4
72.5°	191.5
75°	162.8
77.5°	134.0
80°	106.5
82.5°	79.0
85°	52.7
87.5°	26.3
90°	0.0



TEST NUMBER: P866507

CATALOG NUMBER: PRLX-2004-M-930-45L-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	16.60	17.95	16.97	18.26	18.58	16.60	17.95	16.97	18.26	18.58
	3H	18.34	19.55	18.72	19.88	20.24	18.34	19.55	18.72	19.88	20.24
	4H	19.05	20.18	19.45	20.53	20.91	19.05	20.18	19.45	20.53	20.91
	6H	19.62	20.67	20.04	21.04	21.43	19.62	20.67	20.04	21.04	21.43
	8H	19.83	20.83	20.26	21.22	21.62	19.83	20.83	20.26	21.22	21.62
	12H	19.99	20.94	20.42	21.32	21.75	19.99	20.94	20.42	21.32	21.75
4H	2H	17.15	18.29	17.56	18.64	19.02	17.15	18.29	17.56	18.64	19.02
	3H	19.13	20.07	19.54	20.47	20.88	19.13	20.07	19.54	20.47	20.88
	4H	19.98	20.83	20.41	21.24	21.69	19.98	20.83	20.41	21.24	21.69
	6H	20.70	21.43	21.16	21.88	22.34	20.70	21.43	21.16	21.88	22.34
	8H	20.97	21.65	21.43	22.10	22.57	20.97	21.65	21.43	22.10	22.57
	12H	21.18	21.79	21.67	22.27	22.75	21.18	21.79	21.67	22.27	22.75
8H	4H	20.29	20.97	20.75	21.42	21.89	20.29	20.97	20.75	21.42	21.89
	6H	21.16	21.72	21.66	22.22	22.70	21.16	21.72	21.66	22.22	22.70
	8H	21.52	22.02	22.04	22.54	23.03	21.52	22.02	22.04	22.54	23.03
	12H	21.84	22.28	22.35	22.77	23.34	21.84	22.28	22.35	22.77	23.34
12H	4H	20.32	20.93	20.80	21.41	21.88	20.32	20.93	20.80	21.41	21.88
	6H	21.22	21.73	21.74	22.24	22.74	21.22	21.73	21.74	22.24	22.74
	8H	21.66	22.10	22.17	22.59	23.16	21.66	22.10	22.17	22.59	23.16