

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: P866467

Luminaire Tested: PRLX-2004-M-927-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866467
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-927-75L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

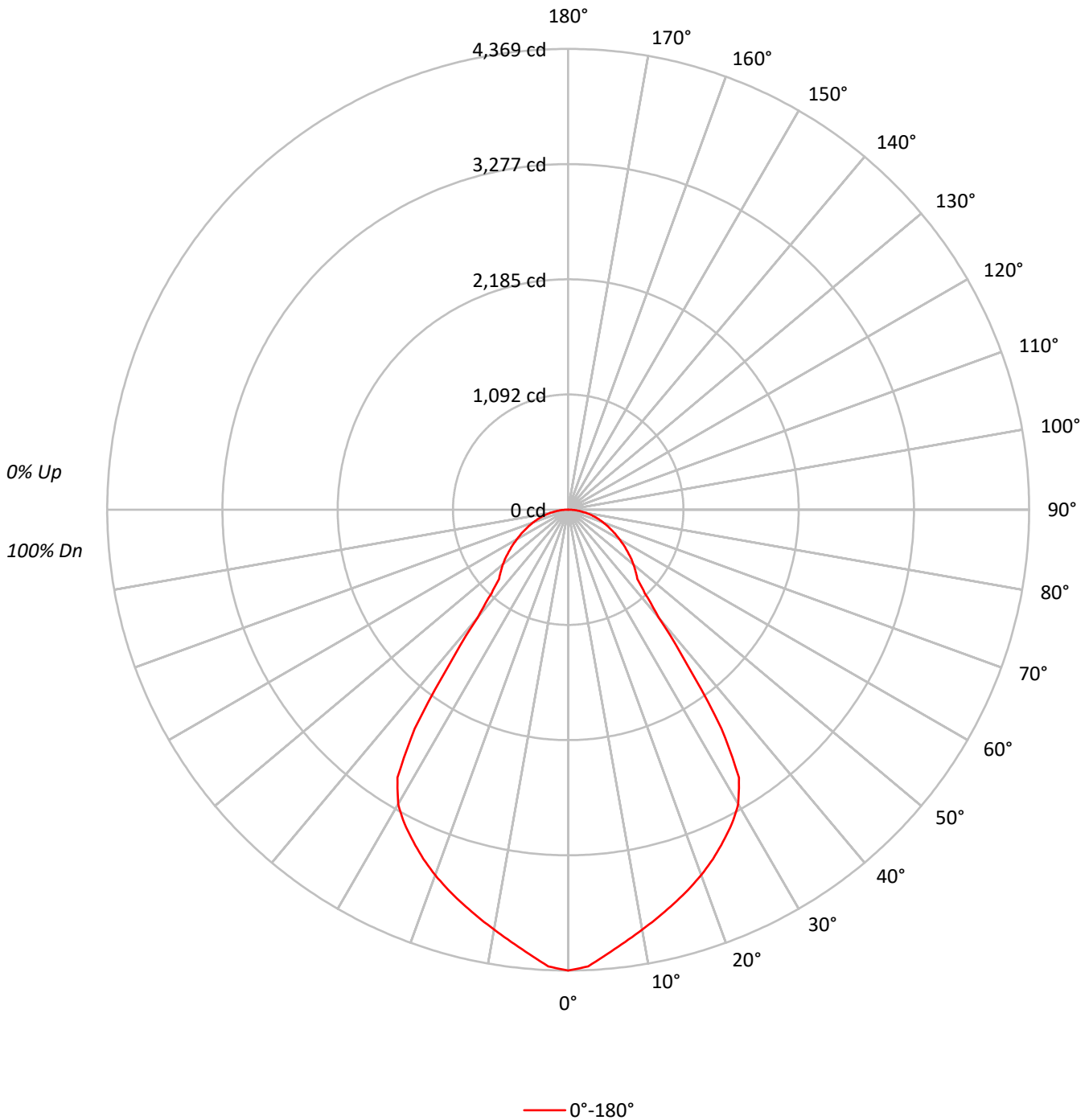
Lumens per Lamp: N/A
Luminaire Lumens: 6765.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): 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: P866467

CATALOG NUMBER: PRLX-2004-M-927-75L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866467

CATALOG NUMBER: PRLX-2004-M-927-75L-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°	34760
5°	33769
10°	32652
15°	31849
20°	31208
25°	30486
30°	29614
35°	24618
40°	13854
45°	10426
50°	10010
55°	9476
60°	8933
65°	8490
70°	8188
75°	7955
80°	7761
85°	7640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10426 cd/sqm

TEST NUMBER: P866467

CATALOG NUMBER: PRLX-2004-M-927-75L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	5.9
10°-20°	1090.8	16.1
20°-30°	1599.0	23.6
30°-40°	1493.7	22.1
40°-50°	757.5	11.2
50°-60°	611.7	9.0
60°-70°	449.6	6.6
70°-80°	273.6	4.0
80°-90°	91.4	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°	3087.8	45.6
0°-40°	4581.5	67.7
0°-60°	5950.7	88.0
0°-90°	6765.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6765.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4369	
5°	4228	398
15°	3867	1091
25°	3473	1599
35°	2535	1494
45°	927	758
55°	683	612
65°	451	450
75°	259	274
85°	84	91
90°	0	

TEST NUMBER: P866467

CATALOG NUMBER: PRLX-2004-M-927-75L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4369.2
2.5°	4333.1
5°	4228.4
7.5°	4133.2
10°	4041.9
12.5°	3954.4
15°	3866.8
17.5°	3779.3
20°	3686.1
22.5°	3585.2
25°	3472.9
27.5°	3358.7
30°	3223.6
32.5°	3010.5
35°	2534.8
37.5°	1847.8
40°	1334.0
42.5°	1075.2
45°	926.7
47.5°	865.9
50°	808.8
52.5°	746.0
55°	683.2
57.5°	622.3
60°	561.4
62.5°	508.1
65°	451.0
67.5°	401.5
70°	352.0
72.5°	304.5
75°	258.8
77.5°	213.1
80°	169.4
82.5°	125.6
85°	83.7
87.5°	41.9
90°	0.0

TEST NUMBER: P866467

CATALOG NUMBER: PRLX-2004-M-927-75L-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	18.21	19.56	18.58	19.88	20.19	18.21	19.56	18.58	19.88	20.19
	3H	19.95	21.16	20.33	21.49	21.86	19.95	21.16	20.33	21.49	21.86
	4H	20.66	21.79	21.06	22.14	22.53	20.66	21.79	21.06	22.14	22.53
	6H	21.23	22.28	21.65	22.65	23.04	21.23	22.28	21.65	22.65	23.04
	8H	21.45	22.44	21.87	22.83	23.23	21.45	22.44	21.87	22.83	23.23
	12H	21.60	22.55	22.04	22.94	23.37	21.60	22.55	22.04	22.94	23.37
4H	2H	18.77	19.90	19.17	20.25	20.63	18.77	19.90	19.17	20.25	20.63
	3H	20.74	21.68	21.15	22.09	22.49	20.74	21.68	21.15	22.09	22.49
	4H	21.59	22.44	22.02	22.85	23.30	21.59	22.44	22.02	22.85	23.30
	6H	22.31	23.05	22.77	23.49	23.95	22.31	23.05	22.77	23.49	23.95
	8H	22.58	23.27	23.04	23.71	24.18	22.58	23.27	23.04	23.71	24.18
	12H	22.79	23.40	23.28	23.88	24.36	22.79	23.40	23.28	23.88	24.36
8H	4H	21.90	22.58	22.36	23.03	23.50	21.90	22.58	22.36	23.03	23.50
	6H	22.77	23.33	23.27	23.83	24.31	22.77	23.33	23.27	23.83	24.31
	8H	23.13	23.64	23.65	24.15	24.64	23.13	23.64	23.65	24.15	24.64
	12H	23.45	23.89	23.96	24.39	24.95	23.45	23.89	23.96	24.39	24.95
12H	4H	21.93	22.54	22.41	23.02	23.49	21.93	22.54	22.41	23.02	23.49
	6H	22.84	23.34	23.36	23.86	24.35	22.84	23.34	23.36	23.86	24.35
	8H	23.27	23.71	23.78	24.21	24.77	23.27	23.71	23.78	24.21	24.77