

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: P867295

Luminaire Tested: PRLX-2004-L-930-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-83L-L-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

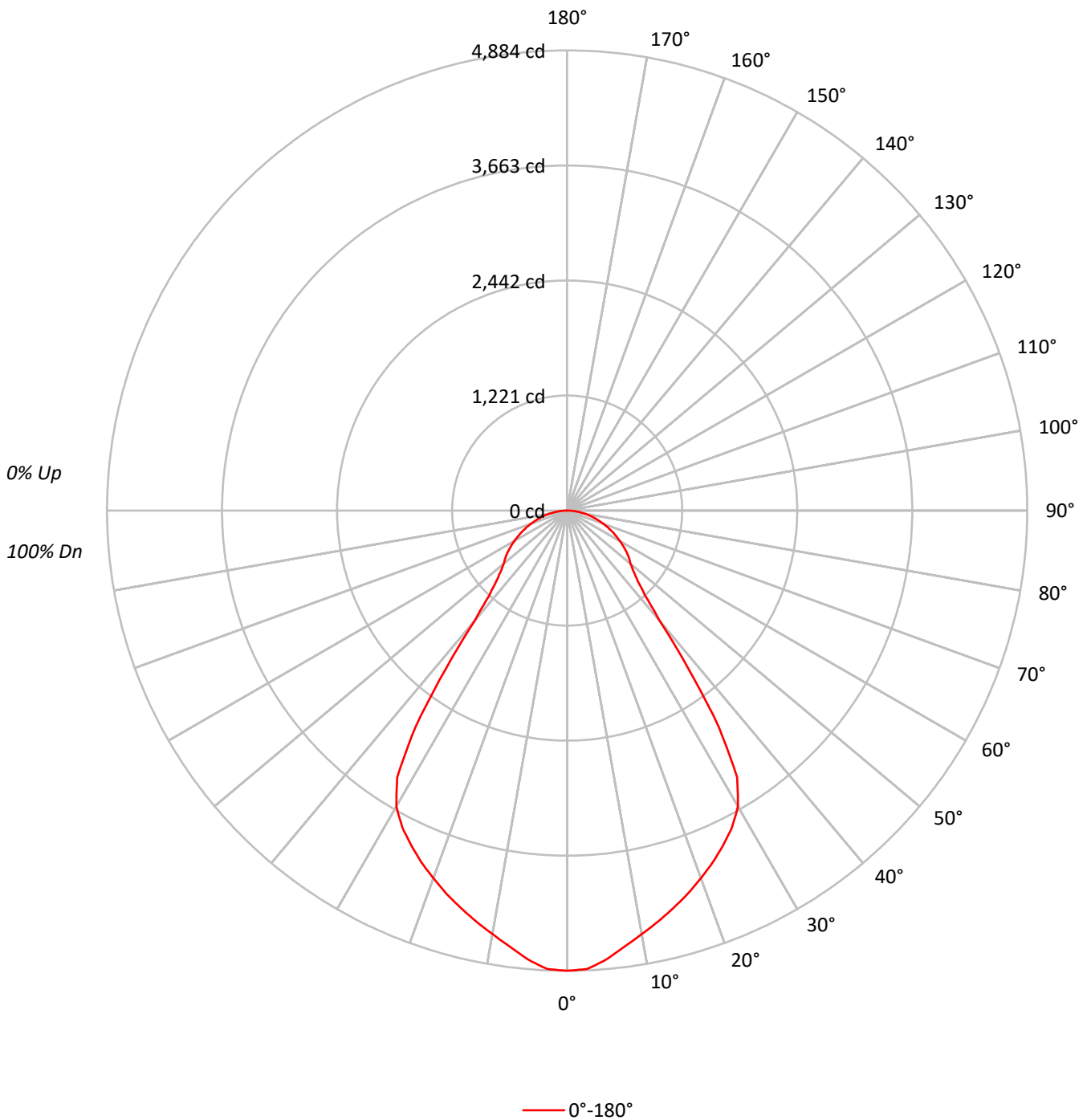
Lumens per Lamp: N/A
Luminaire Lumens: 7635.5 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (A_{in}): 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: P867295

CATALOG NUMBER: PRLX-2004-L-930-83L-L-X-X-WHHR-X

Luminous Intensity Polar Plot



TEST NUMBER: P867295

CATALOG NUMBER: PRLX-2004-L-930-83L-L-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	82		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	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	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		53	48	43		52	47	43	41
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°	24096
5°	23689
10°	22867
15°	22295
20°	21799
25°	21330
30°	20656
35°	16912
40°	9821
45°	7427
50°	6749
55°	6635
60°	6398
65°	6142
70°	5899
75°	5641
80°	5401
85°	5180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7427 cd/sqm

TEST NUMBER: P867295

CATALOG NUMBER: PRLX-2004-L-930-83L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	5.9
10°-20°	1230.8	16.1
20°-30°	1802.4	23.6
30°-40°	1675.9	21.9
40°-50°	853.8	11.2
50°-60°	686.9	9.0
60°-70°	521.5	6.8
70°-80°	314.1	4.1
80°-90°	100.9	1.3
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°	3482.4	45.6
0°-40°	5158.2	67.6
0°-60°	6698.9	87.7
0°-90°	7635.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7635.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4884	
5°	4783	449
15°	4365	1231
25°	3918	1802
35°	2808	1676
45°	1064	854
55°	771	687
65°	526	522
75°	296	314
85°	92	101
90°	0	

TEST NUMBER: P867295

CATALOG NUMBER: PRLX-2004-L-930-83L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4883.8
2.5°	4869.5
5°	4783.0
7.5°	4667.2
10°	4564.3
12.5°	4466.4
15°	4364.9
17.5°	4261.9
20°	4151.8
22.5°	4040.3
25°	3918.1
27.5°	3789.4
30°	3625.7
32.5°	3356.2
35°	2807.9
37.5°	2107.4
40°	1524.8
42.5°	1226.0
45°	1064.4
47.5°	950.7
50°	879.3
52.5°	827.8
55°	771.3
57.5°	708.4
60°	648.4
62.5°	586.2
65°	526.1
67.5°	466.8
70°	408.9
72.5°	352.4
75°	295.9
77.5°	243.0
80°	190.1
82.5°	140.8
85°	91.5
87.5°	43.6
90°	0.0



TEST NUMBER: P867295
 CATALOG NUMBER: PRLX-2004-L-930-83L-L-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	17.03	18.39	17.40	18.70	19.02	17.03	18.39	17.40	18.70	19.02
	3H	18.83	20.05	19.21	20.38	20.74	18.83	20.05	19.21	20.38	20.74
	4H	19.54	20.68	19.94	21.03	21.41	19.54	20.68	19.94	21.03	21.41
	6H	20.10	21.15	20.51	21.52	21.91	20.10	21.15	20.51	21.52	21.91
	8H	20.30	21.30	20.73	21.69	22.09	20.30	21.30	20.73	21.69	22.09
	12H	20.45	21.40	20.88	21.78	22.21	20.45	21.40	20.88	21.78	22.21
4H	2H	17.62	18.76	18.02	19.11	19.49	17.62	18.76	18.02	19.11	19.49
	3H	19.64	20.59	20.06	20.99	21.39	19.64	20.59	20.06	20.99	21.39
	4H	20.48	21.33	20.92	21.75	22.19	20.48	21.33	20.92	21.75	22.19
	6H	21.18	21.92	21.64	22.36	22.83	21.18	21.92	21.64	22.36	22.83
	8H	21.44	22.13	21.90	22.57	23.04	21.44	22.13	21.90	22.57	23.04
	12H	21.63	22.25	22.12	22.73	23.20	21.63	22.25	22.12	22.73	23.20
8H	4H	20.79	21.48	21.25	21.92	22.39	20.79	21.48	21.25	21.92	22.39
	6H	21.63	22.20	22.13	22.69	23.17	21.63	22.20	22.13	22.69	23.17
	8H	21.98	22.48	22.50	23.00	23.49	21.98	22.48	22.50	23.00	23.49
	12H	22.27	22.72	22.78	23.21	23.78	22.27	22.72	22.78	23.21	23.78
12H	4H	20.82	21.43	21.30	21.91	22.38	20.82	21.43	21.30	21.91	22.38
	6H	21.69	22.20	22.21	22.71	23.21	21.69	22.20	22.21	22.71	23.21
	8H	22.11	22.55	22.62	23.05	23.61	22.11	22.55	22.62	23.05	23.61