

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: P867251

Luminaire Tested: PRLX-2004-L-930-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-117L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

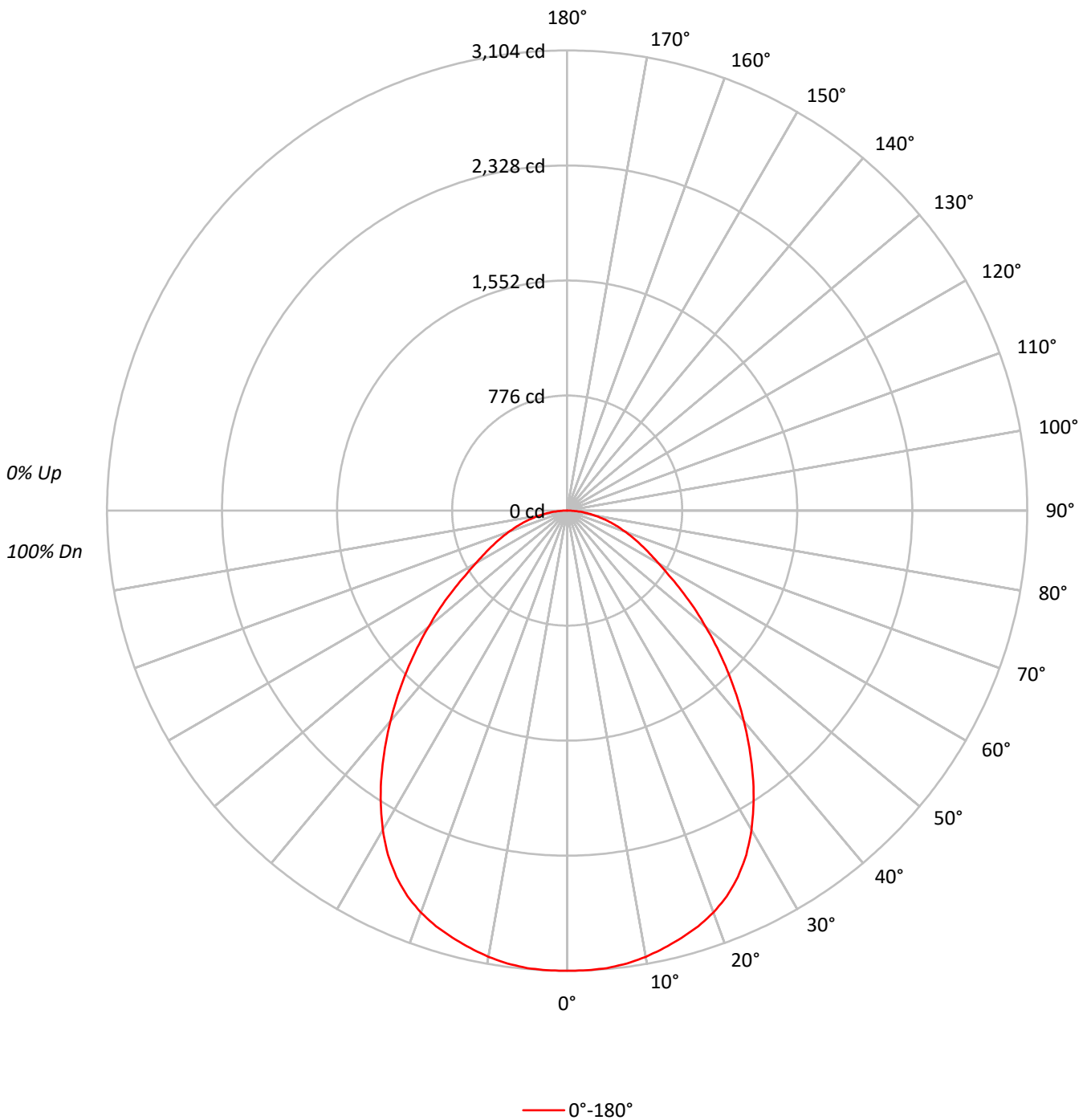
Lumens per Lamp: N/A
Luminaire Lumens: 6738.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P867251

CATALOG NUMBER: PRLX-2004-L-930-117L-G-X-X-WHHR-X

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15314
5°	15342
10°	15313
15°	15242
20°	15149
25°	14841
30°	14171
35°	13157
40°	11941
45°	10659
50°	9369
55°	8091
60°	7016
65°	6443
70°	6014
75°	5644
80°	5322
85°	5016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10659 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	4.4
10°-20°	842.1	12.5
20°-30°	1249.7	18.5
30°-40°	1361.0	20.2
40°-50°	1180.1	17.5
50°-60°	848.0	12.6
60°-70°	550.0	8.2
70°-80°	314.7	4.7
80°-90°	98.6	1.5
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°	2386.1	35.4
0°-40°	3747.1	55.6
0°-60°	5775.2	85.7
0°-90°	6738.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6738.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3104	
5°	3098	294
15°	2984	842
25°	2726	1250
35°	2184	1361
45°	1528	1180
55°	941	848
65°	552	550
75°	296	315
85°	89	99
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3103.8
2.5°	3103.8
5°	3097.8
7.5°	3081.7
10°	3056.5
12.5°	3022.2
15°	2984.0
17.5°	2939.7
20°	2885.3
22.5°	2815.8
25°	2726.2
27.5°	2617.4
30°	2487.5
32.5°	2341.5
35°	2184.4
37.5°	2019.2
40°	1854.0
42.5°	1690.9
45°	1527.7
47.5°	1373.7
50°	1220.6
52.5°	1079.6
55°	940.6
57.5°	814.7
60°	711.0
62.5°	626.4
65°	551.9
67.5°	481.4
70°	416.9
72.5°	354.5
75°	296.1
77.5°	240.7
80°	187.3
82.5°	137.0
85°	88.6
87.5°	43.3
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	18.23	19.73	18.60	20.05	20.36	18.23	19.73	18.60	20.05	20.36
	3H	19.75	21.09	20.12	21.42	21.78	19.75	21.09	20.12	21.42	21.78
	4H	20.35	21.61	20.75	21.96	22.33	20.35	21.61	20.75	21.96	22.33
	6H	20.82	21.99	21.23	22.35	22.75	20.82	21.99	21.23	22.35	22.75
	8H	20.99	22.10	21.42	22.49	22.89	20.99	22.10	21.42	22.49	22.89
	12H	21.12	22.18	21.55	22.56	22.99	21.12	22.18	21.55	22.56	22.99
4H	2H	18.73	20.00	19.13	20.34	20.72	18.73	20.00	19.13	20.34	20.72
	3H	20.49	21.53	20.90	21.93	22.34	20.49	21.53	20.90	21.93	22.34
	4H	21.22	22.17	21.66	22.58	23.02	21.22	22.17	21.66	22.58	23.02
	6H	21.84	22.66	22.30	23.10	23.56	21.84	22.66	22.30	23.10	23.56
	8H	22.06	22.83	22.53	23.27	23.74	22.06	22.83	22.53	23.27	23.74
	12H	22.24	22.92	22.72	23.40	23.87	22.24	22.92	22.72	23.40	23.87
8H	4H	21.50	22.27	21.96	22.71	23.18	21.50	22.27	21.96	22.71	23.18
	6H	22.25	22.88	22.74	23.37	23.85	22.25	22.88	22.74	23.37	23.85
	8H	22.55	23.12	23.07	23.63	24.12	22.55	23.12	23.07	23.63	24.12
	12H	22.81	23.32	23.32	23.81	24.38	22.81	23.32	23.32	23.81	24.38
12H	4H	21.53	22.21	22.01	22.69	23.16	21.53	22.21	22.01	22.69	23.16
	6H	22.30	22.87	22.82	23.38	23.87	22.30	22.87	22.82	23.38	23.87
	8H	22.67	23.18	23.18	23.67	24.23	22.67	23.18	23.18	23.67	24.23