

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: P867119

Luminaire Tested: PRLX-2002-L-940-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-117L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

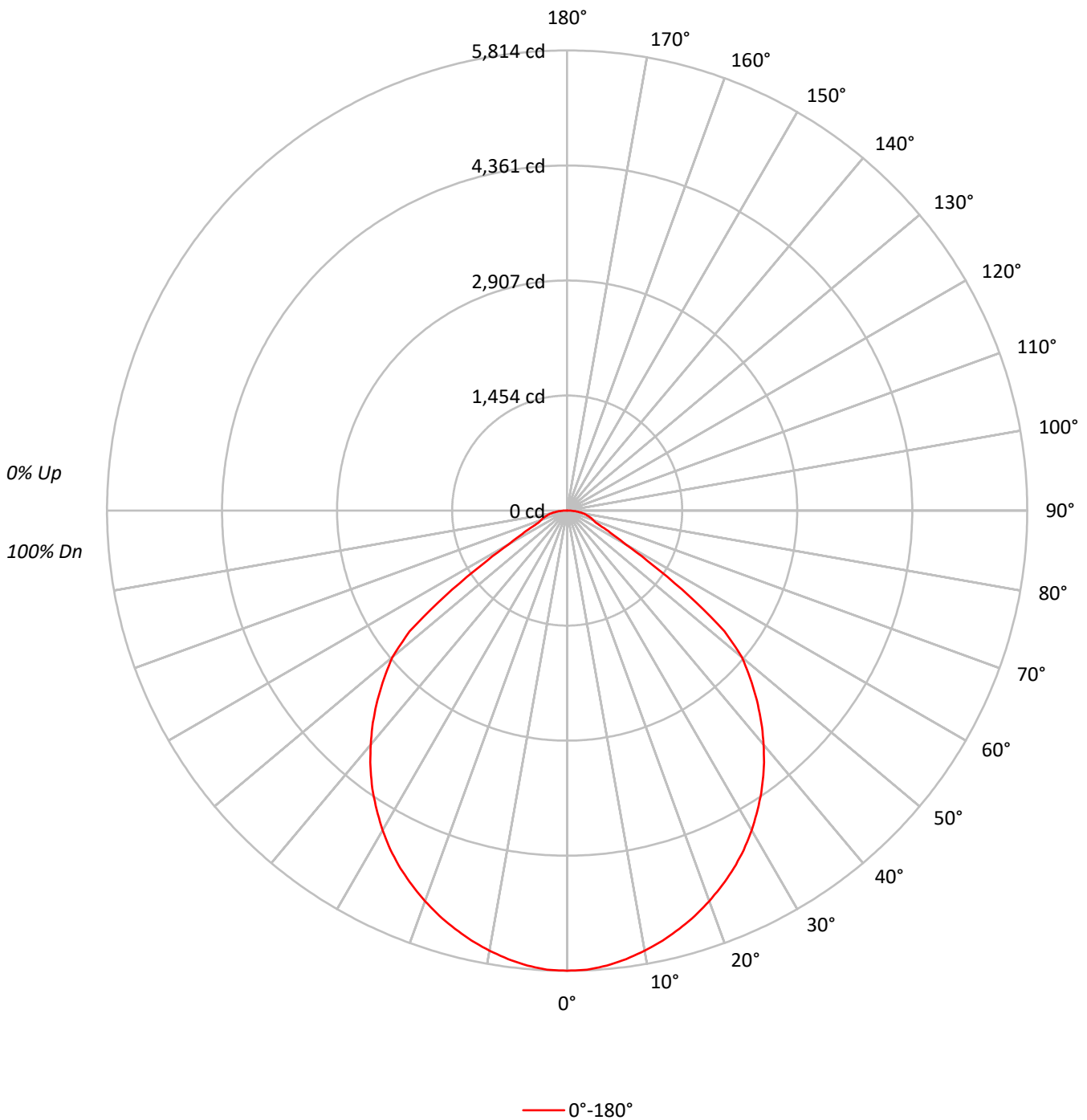
Lumens per Lamp: N/A
Luminaire Lumens: 12280.8 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867119

CATALOG NUMBER: PRLX-2002-L-940-117L-L-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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28685
5°	28579
10°	28284
15°	27944
20°	27565
25°	27138
30°	26562
35°	25838
40°	24872
45°	23641
50°	22121
55°	16203
60°	8468
65°	5643
70°	5046
75°	5364
80°	5864
85°	6459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.8	4.5
10°-20°	1543.0	12.6
20°-30°	2294.5	18.7
30°-40°	2678.3	21.8
40°-50°	2609.4	21.2
50°-60°	1671.7	13.6
60°-70°	520.5	4.2
70°-80°	296.5	2.4
80°-90°	120.0	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°	4384.3	35.7
0°-40°	7062.7	57.5
0°-60°	11343.7	92.4
0°-90°	12280.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12280.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5814	
5°	5770	547
15°	5471	1543
25°	4985	2295
35°	4290	2678
45°	3388	2609
55°	1884	1672
65°	483	521
75°	281	297
85°	114	120
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5813.9
2.5°	5805.2
5°	5770.5
7.5°	5716.2
10°	5645.6
12.5°	5566.3
15°	5470.7
17.5°	5368.5
20°	5250.1
22.5°	5123.0
25°	4985.1
27.5°	4833.0
30°	4662.4
32.5°	4481.0
35°	4289.8
37.5°	4083.4
40°	3861.8
42.5°	3632.6
45°	3388.2
47.5°	3138.3
50°	2882.0
52.5°	2508.3
55°	1883.7
57.5°	1275.3
60°	858.2
62.5°	639.8
65°	483.4
67.5°	383.5
70°	349.8
72.5°	318.3
75°	281.4
77.5°	245.5
80°	206.4
82.5°	162.9
85°	114.1
87.5°	60.8
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	19.21	20.67	19.58	20.98	21.29	19.21	20.67	19.58	20.98	21.29
	3H	19.63	20.92	20.01	21.25	21.61	19.63	20.92	20.01	21.25	21.61
	4H	19.91	21.12	20.31	21.47	21.85	19.91	21.12	20.31	21.47	21.85
	6H	20.23	21.34	20.64	21.71	22.10	20.23	21.34	20.64	21.71	22.10
	8H	20.38	21.43	20.80	21.82	22.22	20.38	21.43	20.80	21.82	22.22
	12H	20.50	21.51	20.93	21.89	22.32	20.50	21.51	20.93	21.89	22.32
4H	2H	19.27	20.47	19.67	20.82	21.20	19.27	20.47	19.67	20.82	21.20
	3H	19.89	20.87	20.30	21.27	21.67	19.89	20.87	20.30	21.27	21.67
	4H	20.31	21.19	20.74	21.61	22.05	20.31	21.19	20.74	21.61	22.05
	6H	20.80	21.56	21.26	22.01	22.47	20.80	21.56	21.26	22.01	22.47
	8H	21.02	21.74	21.49	22.18	22.65	21.02	21.74	21.49	22.18	22.65
	12H	21.22	21.86	21.71	22.34	22.81	21.22	21.86	21.71	22.34	22.81
8H	4H	20.45	21.17	20.92	21.61	22.08	20.45	21.17	20.92	21.61	22.08
	6H	21.08	21.68	21.58	22.17	22.65	21.08	21.68	21.58	22.17	22.65
	8H	21.40	21.94	21.92	22.45	22.94	21.40	21.94	21.92	22.45	22.94
	12H	21.71	22.19	22.22	22.68	23.25	21.71	22.19	22.22	22.68	23.25
12H	4H	20.47	21.10	20.95	21.58	22.06	20.47	21.10	20.95	21.58	22.06
	6H	21.13	21.67	21.65	22.18	22.67	21.13	21.67	21.65	22.18	22.67
	8H	21.52	22.00	22.03	22.49	23.06	21.52	22.00	22.03	22.49	23.06