

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: P867055

Luminaire Tested: PRLX-2002-L-935-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867055
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-935-117L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

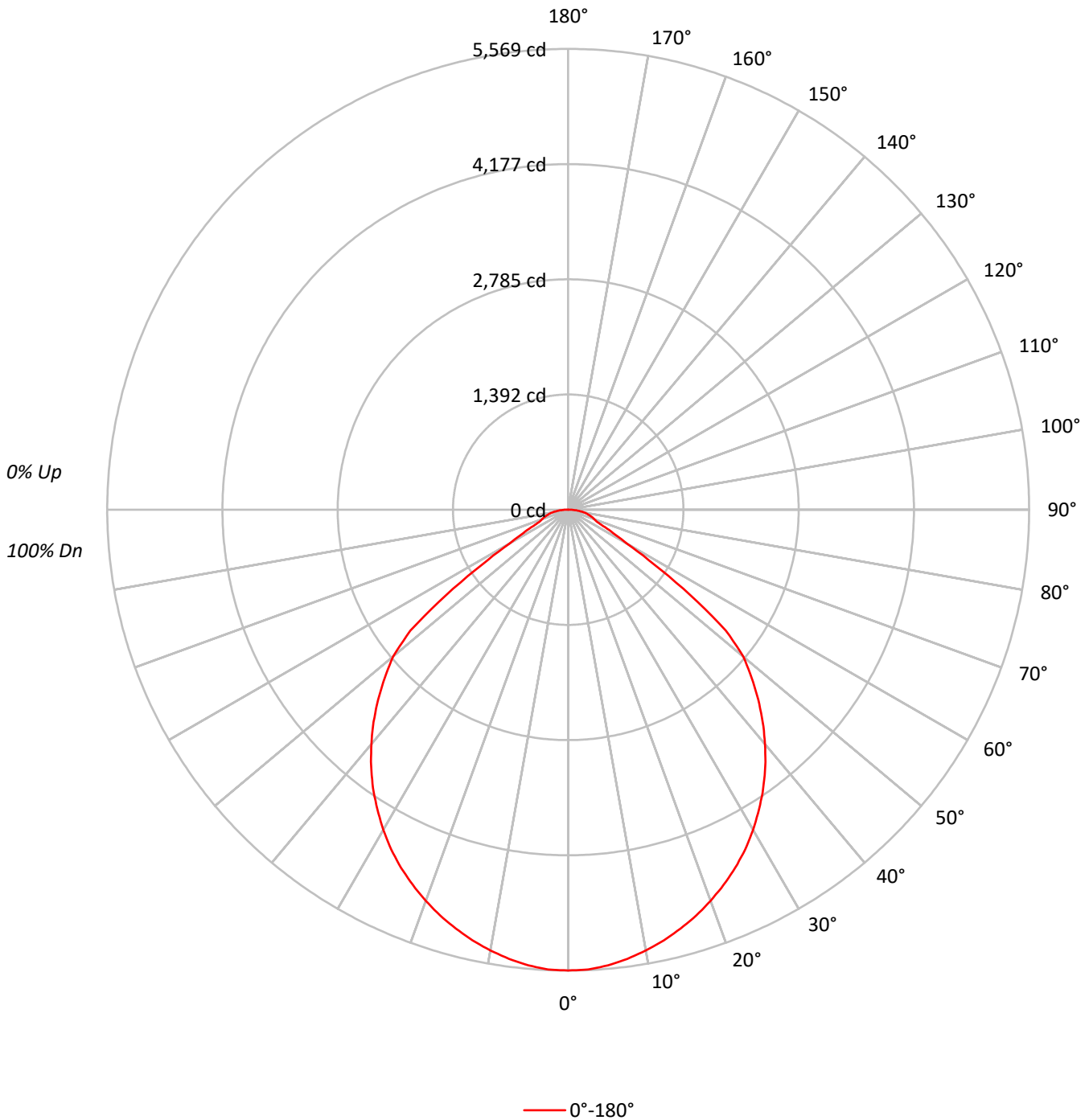
Lumens per Lamp: N/A
Luminaire Lumens: 11763.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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°	27476
5°	27375
10°	27092
15°	26766
20°	26405
25°	25995
30°	25443
35°	24749
40°	23825
45°	22645
50°	21189
55°	15520
60°	8111
65°	5405
70°	4834
75°	5137
80°	5617
85°	6187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	4.5
10°-20°	1478.0	12.6
20°-30°	2197.9	18.7
30°-40°	2565.5	21.8
40°-50°	2499.5	21.2
50°-60°	1601.3	13.6
60°-70°	498.6	4.2
70°-80°	284.0	2.4
80°-90°	115.0	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°	4199.6	35.7
0°-40°	6765.2	57.5
0°-60°	10865.9	92.4
0°-90°	11763.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11763.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5569	
5°	5527	524
15°	5240	1478
25°	4775	2198
35°	4109	2566
45°	3246	2499
55°	1804	1601
65°	463	499
75°	270	284
85°	109	115
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5569.0
2.5°	5560.7
5°	5527.4
7.5°	5475.4
10°	5407.7
12.5°	5331.8
15°	5240.2
17.5°	5142.4
20°	5029.0
22.5°	4907.2
25°	4775.1
27.5°	4629.4
30°	4466.0
32.5°	4292.3
35°	4109.1
37.5°	3911.4
40°	3699.2
42.5°	3479.6
45°	3245.5
47.5°	3006.2
50°	2760.6
52.5°	2402.6
55°	1804.3
57.5°	1221.6
60°	822.0
62.5°	612.9
65°	463.0
67.5°	367.3
70°	335.1
72.5°	304.9
75°	269.5
77.5°	235.2
80°	197.7
82.5°	156.1
85°	109.3
87.5°	58.3
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	19.06	20.52	19.43	20.83	21.14	19.06	20.52	19.43	20.83	21.14
	3H	19.48	20.77	19.86	21.10	21.46	19.48	20.77	19.86	21.10	21.46
	4H	19.76	20.97	20.16	21.32	21.70	19.76	20.97	20.16	21.32	21.70
	6H	20.08	21.19	20.49	21.56	21.95	20.08	21.19	20.49	21.56	21.95
	8H	20.23	21.28	20.66	21.67	22.07	20.23	21.28	20.66	21.67	22.07
	12H	20.35	21.36	20.78	21.74	22.17	20.35	21.36	20.78	21.74	22.17
4H	2H	19.12	20.32	19.52	20.67	21.05	19.12	20.32	19.52	20.67	21.05
	3H	19.74	20.72	20.15	21.12	21.52	19.74	20.72	20.15	21.12	21.52
	4H	20.16	21.04	20.59	21.46	21.90	20.16	21.04	20.59	21.46	21.90
	6H	20.65	21.41	21.11	21.86	22.32	20.65	21.41	21.11	21.86	22.32
	8H	20.87	21.59	21.34	22.03	22.50	20.87	21.59	21.34	22.03	22.50
	12H	21.07	21.71	21.56	22.19	22.66	21.07	21.71	21.56	22.19	22.66
8H	4H	20.30	21.02	20.77	21.46	21.93	20.30	21.02	20.77	21.46	21.93
	6H	20.94	21.53	21.43	22.02	22.50	20.94	21.53	21.43	22.02	22.50
	8H	21.25	21.79	21.77	22.30	22.79	21.25	21.79	21.77	22.30	22.79
	12H	21.56	22.04	22.07	22.54	23.10	21.56	22.04	22.07	22.54	23.10
12H	4H	20.32	20.95	20.80	21.44	21.91	20.32	20.95	20.80	21.44	21.91
	6H	20.98	21.52	21.50	22.03	22.52	20.98	21.52	21.50	22.03	22.52
	8H	21.37	21.85	21.88	22.34	22.91	21.37	21.85	21.88	22.34	22.91