

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: P866475

Luminaire Tested: PRLX-2004-M-930-07L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866475
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-930-07L-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 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

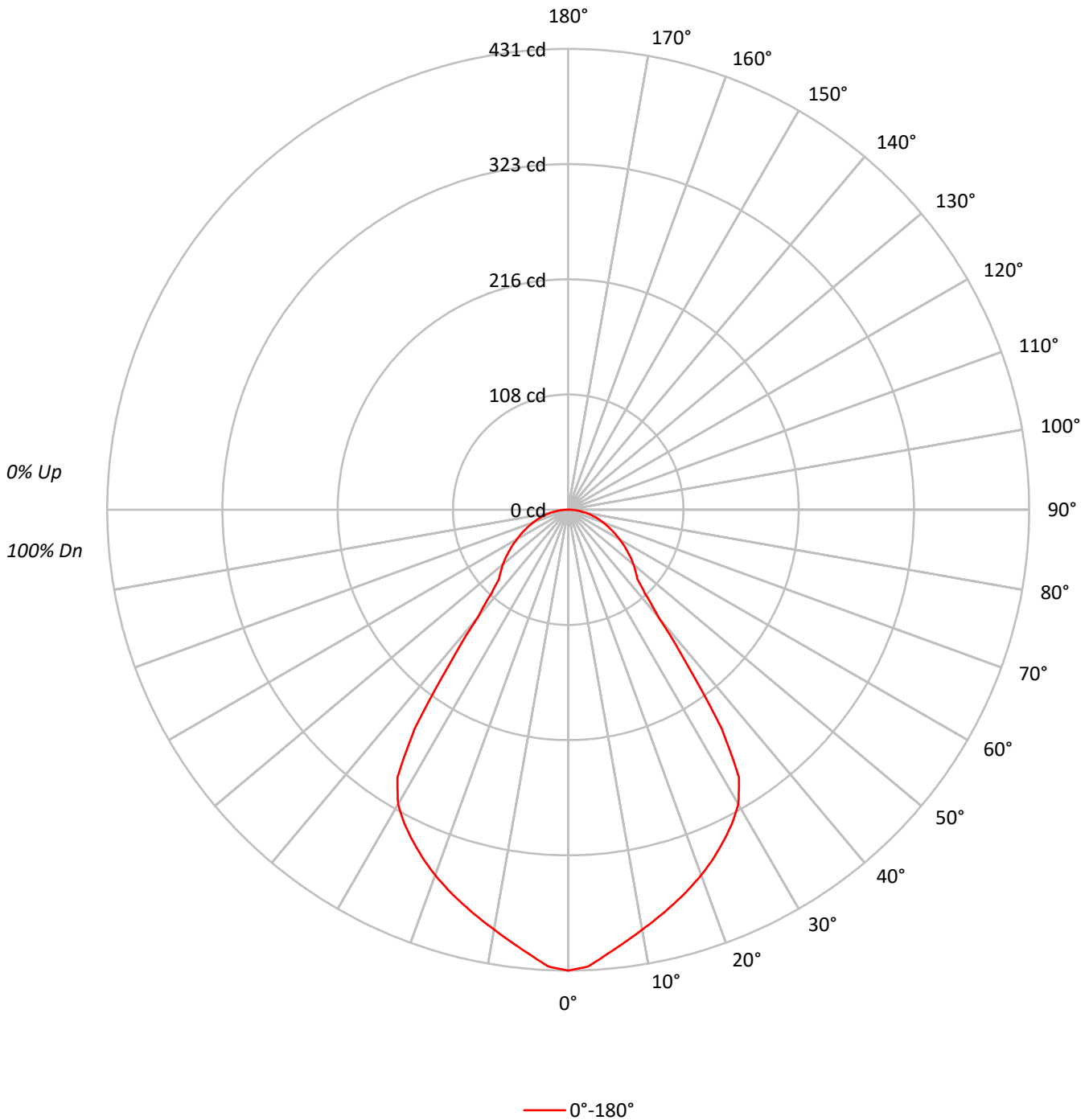
Lumens per Lamp: N/A
Luminaire Lumens: 667.5 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: 0.5 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	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°	3430
5°	3332
10°	3222
15°	3143
20°	3079
25°	3008
30°	2922
35°	2429
40°	1367
45°	1028
50°	988
55°	935
60°	881
65°	838
70°	807
75°	784
80°	765
85°	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	5.9
10°-20°	107.6	16.1
20°-30°	157.8	23.6
30°-40°	147.4	22.1
40°-50°	74.7	11.2
50°-60°	60.3	9.0
60°-70°	44.4	6.6
70°-80°	27.0	4.0
80°-90°	9.0	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°	304.7	45.6
0°-40°	452.1	67.7
0°-60°	587.2	88.0
0°-90°	667.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	667.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	431	
5°	417	39
15°	382	108
25°	343	158
35°	250	147
45°	91	75
55°	67	60
65°	44	44
75°	26	27
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	431.1
2.5°	427.6
5°	417.2
7.5°	407.8
10°	398.8
12.5°	390.2
15°	381.6
17.5°	372.9
20°	363.7
22.5°	353.8
25°	342.7
27.5°	331.4
30°	318.1
32.5°	297.1
35°	250.1
37.5°	182.3
40°	131.6
42.5°	106.1
45°	91.4
47.5°	85.4
50°	79.8
52.5°	73.6
55°	67.4
57.5°	61.4
60°	55.4
62.5°	50.1
65°	44.5
67.5°	39.6
70°	34.7
72.5°	30.0
75°	25.5
77.5°	21.0
80°	16.7
82.5°	12.4
85°	8.3
87.5°	4.1
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	10.16	11.52	10.53	11.83	12.14	10.16	11.52	10.53	11.83	12.14
	3H	11.90	13.11	12.28	13.44	13.81	11.90	13.11	12.28	13.44	13.81
	4H	12.61	13.74	13.01	14.09	14.48	12.61	13.74	13.01	14.09	14.48
	6H	13.18	14.23	13.60	14.60	14.99	13.18	14.23	13.60	14.60	14.99
	8H	13.40	14.39	13.82	14.78	15.18	13.40	14.39	13.82	14.78	15.18
	12H	13.55	14.50	13.99	14.89	15.32	13.55	14.50	13.99	14.89	15.32
4H	2H	10.72	11.85	11.12	12.20	12.58	10.72	11.85	11.12	12.20	12.58
	3H	12.69	13.63	13.10	14.04	14.44	12.69	13.63	13.10	14.04	14.44
	4H	13.54	14.39	13.97	14.80	15.25	13.54	14.39	13.97	14.80	15.25
	6H	14.26	14.99	14.72	15.44	15.90	14.26	14.99	14.72	15.44	15.90
	8H	14.53	15.21	14.99	15.66	16.13	14.53	15.21	14.99	15.66	16.13
	12H	14.74	15.35	15.23	15.83	16.31	14.74	15.35	15.23	15.83	16.31
8H	4H	13.85	14.53	14.31	14.98	15.45	13.85	14.53	14.31	14.98	15.45
	6H	14.72	15.28	15.22	15.78	16.26	14.72	15.28	15.22	15.78	16.26
	8H	15.08	15.59	15.60	16.10	16.59	15.08	15.59	15.60	16.10	16.59
	12H	15.40	15.84	15.91	16.34	16.91	15.40	15.84	15.91	16.34	16.91
12H	4H	13.88	14.49	14.36	14.97	15.44	13.88	14.49	14.36	14.97	15.44
	6H	14.79	15.29	15.30	15.80	16.30	14.79	15.29	15.30	15.80	16.30
	8H	15.22	15.66	15.73	16.15	16.72	15.22	15.66	15.73	16.15	16.72