

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: P866407

Luminaire Tested: PRLX-2004-M-927-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-07L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

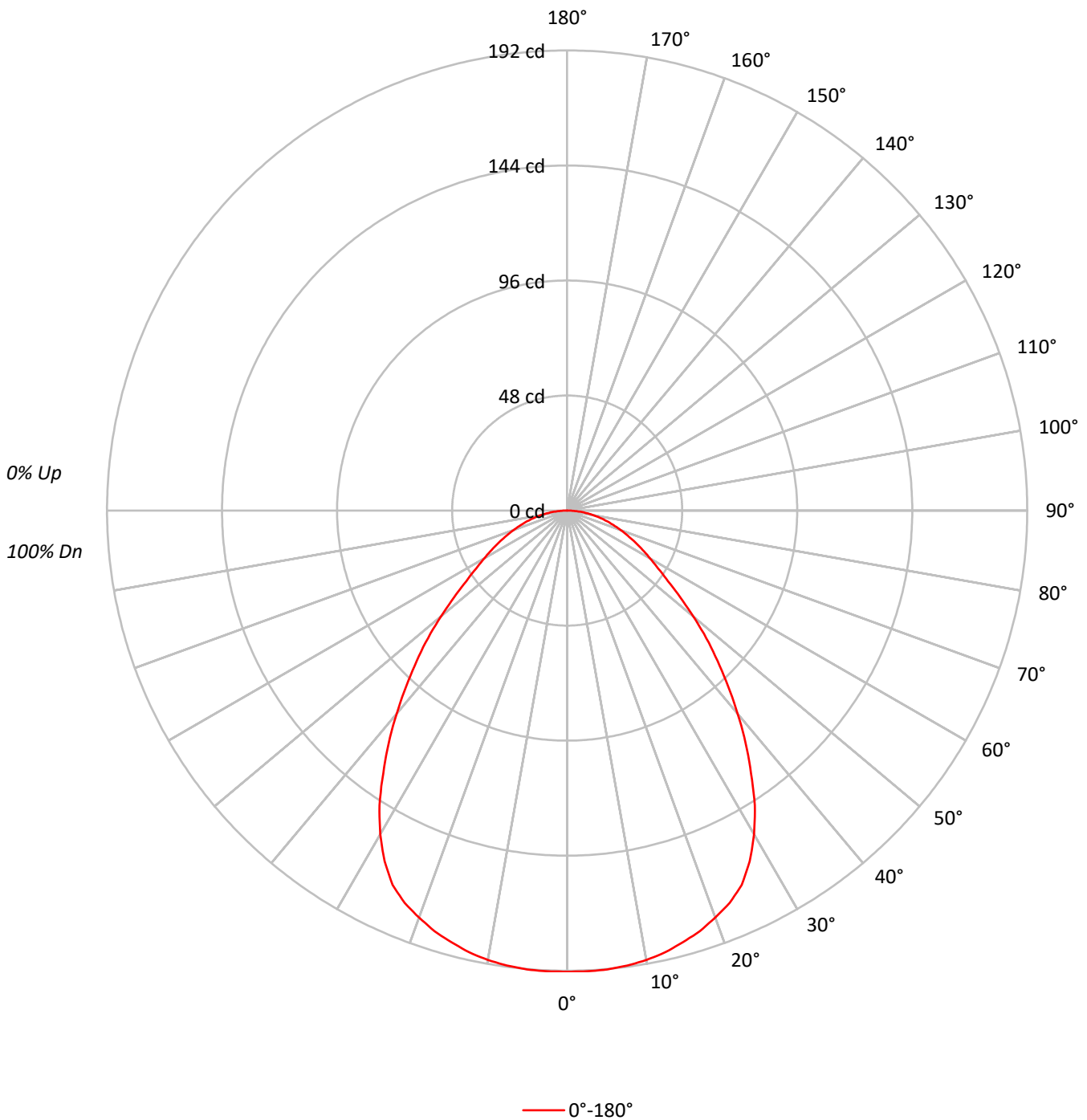
Lumens per Lamp: N/A
Luminaire Lumens: 404.0 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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

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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1531
5°	1535
10°	1538
15°	1536
20°	1530
25°	1512
30°	1433
35°	1299
40°	1150
45°	998
50°	849
55°	713
60°	635
65°	589
70°	554
75°	529
80°	509
85°	493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	4.5
10°-20°	52.6	13.0
20°-30°	78.7	19.5
30°-40°	83.5	20.7
40°-50°	68.6	17.0
50°-60°	46.9	11.6
60°-70°	31.2	7.7
70°-80°	18.3	4.5
80°-90°	5.9	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°	149.6	37.0
0°-40°	233.1	57.7
0°-60°	348.6	86.3
0°-90°	404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	192	
5°	192	18
15°	186	53
25°	172	79
35°	134	83
45°	89	69
55°	51	47
65°	31	31
75°	17	18
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	192.4
2.5°	192.4
5°	192.2
7.5°	191.5
10°	190.4
12.5°	188.8
15°	186.5
17.5°	184.0
20°	180.7
22.5°	177.2
25°	172.3
27.5°	165.0
30°	156.0
32.5°	145.8
35°	133.8
37.5°	122.3
40°	110.7
42.5°	99.4
45°	88.7
47.5°	78.8
50°	68.6
52.5°	59.5
55°	51.4
57.5°	45.1
60°	39.9
62.5°	35.5
65°	31.3
67.5°	27.4
70°	23.8
72.5°	20.4
75°	17.2
77.5°	14.2
80°	11.1
82.5°	8.2
85°	5.4
87.5°	2.7
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	9.60	11.07	9.97	11.39	11.70	9.60	11.07	9.97	11.39	11.70
	3H	11.18	12.51	11.56	12.83	13.20	11.18	12.51	11.56	12.83	13.20
	4H	11.82	13.06	12.22	13.41	13.79	11.82	13.06	12.22	13.41	13.79
	6H	12.35	13.49	12.76	13.86	14.25	12.35	13.49	12.76	13.86	14.25
	8H	12.54	13.63	12.97	14.02	14.42	12.54	13.63	12.97	14.02	14.42
	12H	12.68	13.72	13.11	14.10	14.53	12.68	13.72	13.11	14.10	14.53
4H	2H	10.13	11.37	10.53	11.71	12.09	10.13	11.37	10.53	11.71	12.09
	3H	11.95	12.98	12.36	13.38	13.78	11.95	12.98	12.36	13.38	13.78
	4H	12.73	13.65	13.16	14.07	14.51	12.73	13.65	13.16	14.07	14.51
	6H	13.40	14.20	13.86	14.65	15.11	13.40	14.20	13.86	14.65	15.11
	8H	13.64	14.40	14.11	14.84	15.31	13.64	14.40	14.11	14.84	15.31
	12H	13.84	14.51	14.32	14.99	15.46	13.84	14.51	14.32	14.99	15.46
8H	4H	13.02	13.78	13.49	14.22	14.69	13.02	13.78	13.49	14.22	14.69
	6H	13.83	14.45	14.33	14.95	15.42	13.83	14.45	14.33	14.95	15.42
	8H	14.17	14.73	14.68	15.24	15.72	14.17	14.73	14.68	15.24	15.72
	12H	14.46	14.95	14.97	15.44	16.01	14.46	14.95	14.97	15.44	16.01
12H	4H	13.05	13.73	13.54	14.21	14.68	13.05	13.73	13.54	14.21	14.68
	6H	13.89	14.45	14.41	14.97	15.45	13.89	14.45	14.41	14.97	15.45
	8H	14.29	14.79	14.80	15.28	15.85	14.29	14.79	14.80	15.28	15.85