

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: P866599

Luminaire Tested: PRLX-2004-M-940-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866599
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-940-07L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

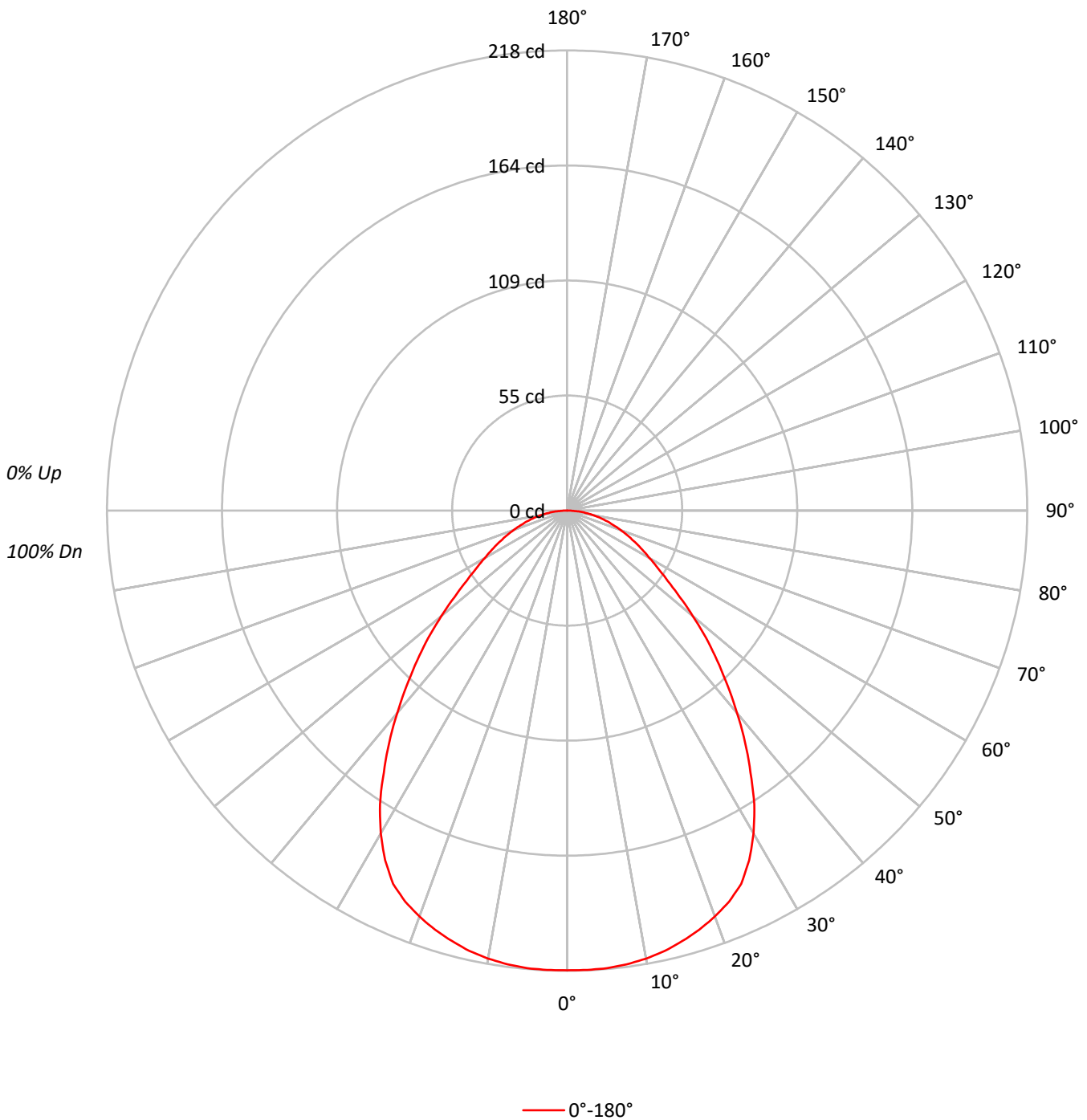
Lumens per Lamp: N/A
Luminaire Lumens: 457.3 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	1733
5°	1738
10°	1741
15°	1739
20°	1732
25°	1713
30°	1622
35°	1471
40°	1301
45°	1130
50°	962
55°	807
60°	719
65°	668
70°	628
75°	599
80°	577
85°	557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	4.5
10°-20°	59.6	13.0
20°-30°	89.1	19.5
30°-40°	94.5	20.7
40°-50°	77.6	17.0
50°-60°	53.1	11.6
60°-70°	35.3	7.7
70°-80°	20.7	4.5
80°-90°	6.7	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°	169.3	37.0
0°-40°	263.9	57.7
0°-60°	394.6	86.3
0°-90°	457.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	218	
5°	218	21
15°	211	60
25°	195	89
35°	152	95
45°	100	78
55°	58	53
65°	36	35
75°	20	21
85°	6	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	217.8
2.5°	217.8
5°	217.6
7.5°	216.8
10°	215.5
12.5°	213.7
15°	211.1
17.5°	208.2
20°	204.6
22.5°	200.5
25°	195.1
27.5°	186.7
30°	176.6
32.5°	165.1
35°	151.5
37.5°	138.5
40°	125.3
42.5°	112.5
45°	100.4
47.5°	89.2
50°	77.7
52.5°	67.3
55°	58.2
57.5°	51.1
60°	45.2
62.5°	40.1
65°	35.5
67.5°	31.0
70°	27.0
72.5°	23.1
75°	19.5
77.5°	16.0
80°	12.6
82.5°	9.3
85°	6.1
87.5°	3.0
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	10.04	11.51	10.40	11.82	12.14	10.04	11.51	10.40	11.82	12.14
	3H	11.62	12.94	12.00	13.27	13.63	11.62	12.94	12.00	13.27	13.63
	4H	12.26	13.50	12.66	13.85	14.23	12.26	13.50	12.66	13.85	14.23
	6H	12.78	13.93	13.20	14.29	14.69	12.78	13.93	13.20	14.29	14.69
	8H	12.97	14.06	13.40	14.45	14.85	12.97	14.06	13.40	14.45	14.85
	12H	13.11	14.16	13.55	14.54	14.97	13.11	14.16	13.55	14.54	14.97
4H	2H	10.56	11.80	10.97	12.15	12.53	10.56	11.80	10.97	12.15	12.53
	3H	12.39	13.41	12.80	13.81	14.22	12.39	13.41	12.80	13.81	14.22
	4H	13.17	14.09	13.60	14.51	14.95	13.17	14.09	13.60	14.51	14.95
	6H	13.83	14.64	14.29	15.08	15.54	13.83	14.64	14.29	15.08	15.54
	8H	14.08	14.83	14.54	15.28	15.74	14.08	14.83	14.54	15.28	15.74
	12H	14.27	14.95	14.76	15.43	15.90	14.27	14.95	14.76	15.43	15.90
8H	4H	13.46	14.21	13.92	14.66	15.12	13.46	14.21	13.92	14.66	15.12
	6H	14.27	14.89	14.76	15.38	15.86	14.27	14.89	14.76	15.38	15.86
	8H	14.60	15.16	15.12	15.67	16.16	14.60	15.16	15.12	15.67	16.16
	12H	14.89	15.39	15.40	15.88	16.44	14.89	15.39	15.40	15.88	16.44
12H	4H	13.49	14.16	13.97	14.64	15.11	13.49	14.16	13.97	14.64	15.11
	6H	14.33	14.89	14.84	15.40	15.89	14.33	14.89	14.84	15.40	15.89
	8H	14.73	15.22	15.24	15.72	16.28	14.73	15.22	15.24	15.72	16.28