

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: P867299

Luminaire Tested: PRLX-2004-L-930-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-930-83L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

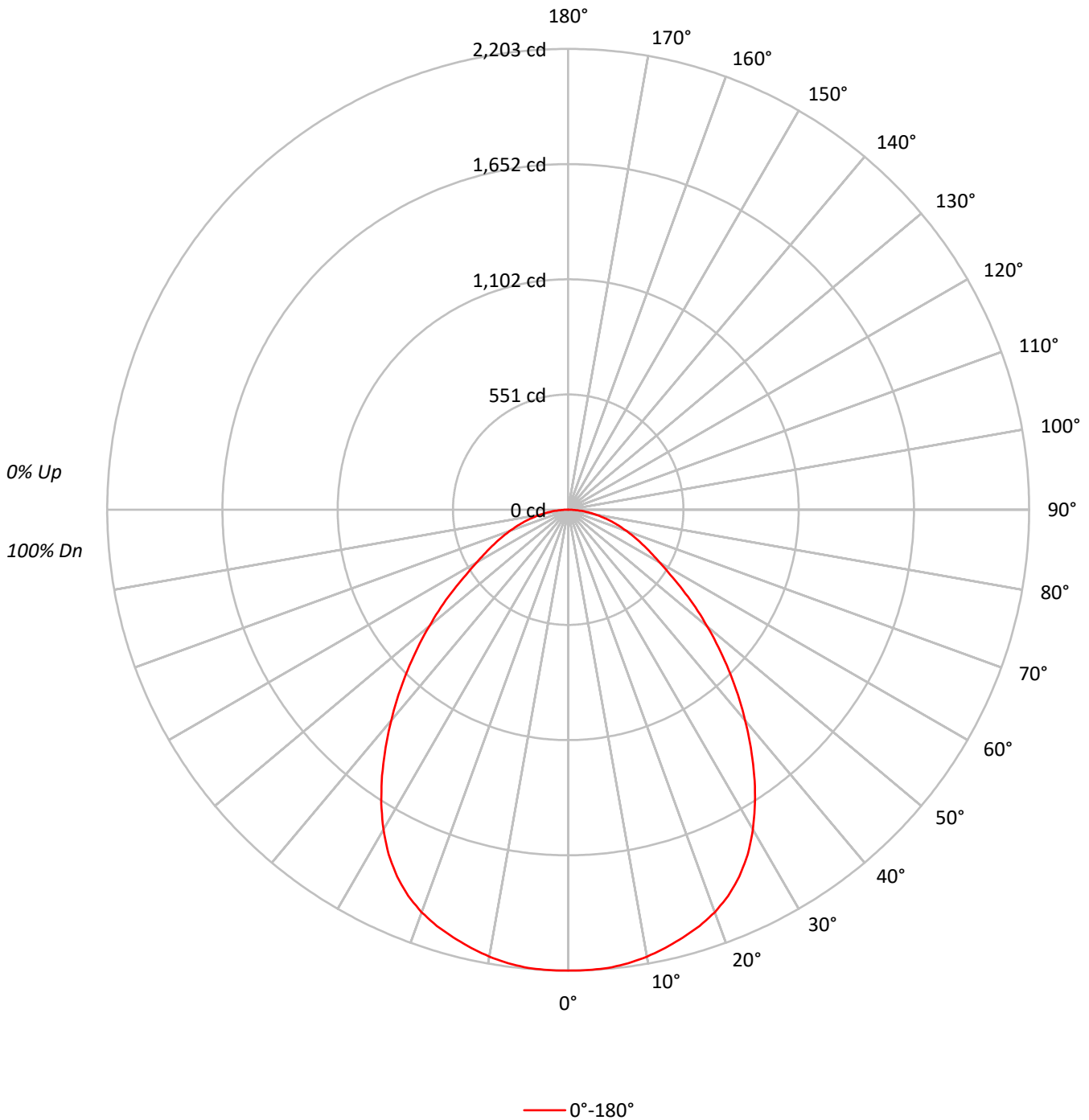
Lumens per Lamp: N/A
Luminaire Lumens: 4783.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10870
5°	10890
10°	10870
15°	10819
20°	10753
25°	10534
30°	10059
35°	9339
40°	8476
45°	7566
50°	6650
55°	5743
60°	4980
65°	4573
70°	4269
75°	4007
80°	3779
85°	3561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	4.4
10°-20°	597.7	12.5
20°-30°	887.0	18.5
30°-40°	966.1	20.2
40°-50°	837.6	17.5
50°-60°	601.9	12.6
60°-70°	390.3	8.2
70°-80°	223.4	4.7
80°-90°	70.0	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°	1693.7	35.4
0°-40°	2659.8	55.6
0°-60°	4099.3	85.7
0°-90°	4783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4783.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2203	
5°	2199	209
15°	2118	598
25°	1935	887
35°	1550	966
45°	1084	838
55°	668	602
65°	392	390
75°	210	223
85°	63	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2203.2
2.5°	2203.2
5°	2198.9
7.5°	2187.4
10°	2169.6
12.5°	2145.3
15°	2118.1
17.5°	2086.6
20°	2048.0
22.5°	1998.7
25°	1935.1
27.5°	1857.9
30°	1765.7
32.5°	1662.0
35°	1550.5
37.5°	1433.3
40°	1316.0
42.5°	1200.2
45°	1084.4
47.5°	975.1
50°	866.4
52.5°	766.3
55°	667.7
57.5°	578.3
60°	504.7
62.5°	444.6
65°	391.7
67.5°	341.7
70°	295.9
72.5°	251.6
75°	210.2
77.5°	170.8
80°	133.0
82.5°	97.2
85°	62.9
87.5°	30.7
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	17.04	18.54	17.41	18.85	19.17	17.04	18.54	17.41	18.85	19.17
	3H	18.55	19.90	18.93	20.23	20.59	18.55	19.90	18.93	20.23	20.59
	4H	19.15	20.42	19.55	20.76	21.14	19.15	20.42	19.55	20.76	21.14
	6H	19.63	20.80	20.04	21.16	21.56	19.63	20.80	20.04	21.16	21.56
	8H	19.80	20.91	20.23	21.30	21.70	19.80	20.91	20.23	21.30	21.70
	12H	19.92	20.99	20.35	21.37	21.80	19.92	20.99	20.35	21.37	21.80
4H	2H	17.54	18.80	17.94	19.15	19.53	17.54	18.80	17.94	19.15	19.53
	3H	19.30	20.34	19.71	20.74	21.14	19.30	20.34	19.71	20.74	21.14
	4H	20.03	20.97	20.46	21.39	21.83	20.03	20.97	20.46	21.39	21.83
	6H	20.65	21.47	21.11	21.91	22.37	20.65	21.47	21.11	21.91	22.37
	8H	20.87	21.64	21.33	22.08	22.55	20.87	21.64	21.33	22.08	22.55
	12H	21.04	21.73	21.53	22.21	22.68	21.04	21.73	21.53	22.21	22.68
8H	4H	20.31	21.08	20.77	21.52	21.99	20.31	21.08	20.77	21.52	21.99
	6H	21.06	21.69	21.55	22.18	22.66	21.06	21.69	21.55	22.18	22.66
	8H	21.36	21.93	21.88	22.44	22.93	21.36	21.93	21.88	22.44	22.93
	12H	21.62	22.13	22.13	22.62	23.19	21.62	22.13	22.13	22.62	23.19
12H	4H	20.33	21.02	20.82	21.50	21.97	20.33	21.02	20.82	21.50	21.97
	6H	21.11	21.68	21.63	22.19	22.68	21.11	21.68	21.63	22.19	22.68
	8H	21.48	21.99	21.99	22.48	23.04	21.48	21.99	21.99	22.48	23.04