

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: P867211

Luminaire Tested: PRLX-2004-L-927-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867211
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-927-32L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

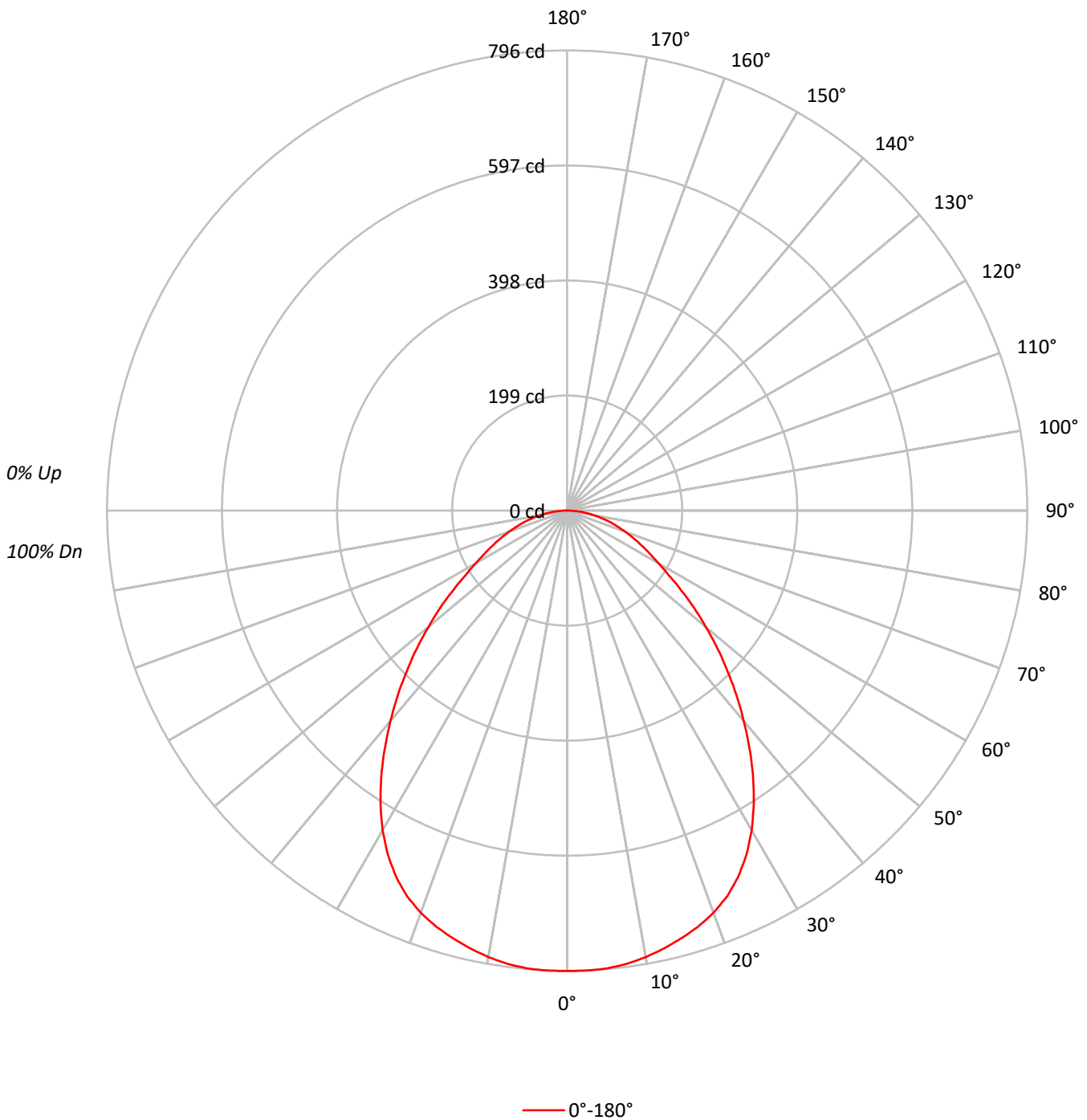
Lumens per Lamp: N/A
Luminaire Lumens: 1729.1 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	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°	3929
5°	3937
10°	3929
15°	3911
20°	3887
25°	3808
30°	3636
35°	3376
40°	3064
45°	2735
50°	2404
55°	2076
60°	1800
65°	1653
70°	1544
75°	1449
80°	1367
85°	1285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	4.4
10°-20°	216.1	12.5
20°-30°	320.7	18.5
30°-40°	349.2	20.2
40°-50°	302.8	17.5
50°-60°	217.6	12.6
60°-70°	141.1	8.2
70°-80°	80.8	4.7
80°-90°	25.3	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°	612.3	35.4
0°-40°	961.5	55.6
0°-60°	1481.9	85.7
0°-90°	1729.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	795	76
15°	766	216
25°	700	321
35°	560	349
45°	392	303
55°	241	218
65°	142	141
75°	76	81
85°	23	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	796.4
2.5°	796.4
5°	794.9
7.5°	790.8
10°	784.3
12.5°	775.5
15°	765.7
17.5°	754.3
20°	740.4
22.5°	722.5
25°	699.5
27.5°	671.6
30°	638.3
32.5°	600.8
35°	560.5
37.5°	518.1
40°	475.7
42.5°	433.9
45°	392.0
47.5°	352.5
50°	313.2
52.5°	277.0
55°	241.4
57.5°	209.1
60°	182.4
62.5°	160.7
65°	141.6
67.5°	123.5
70°	107.0
72.5°	91.0
75°	76.0
77.5°	61.8
80°	48.1
82.5°	35.1
85°	22.7
87.5°	11.1
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	13.51	15.01	13.87	15.32	15.64	13.51	15.01	13.87	15.32	15.64
	3H	15.02	16.36	15.40	16.69	17.05	15.02	16.36	15.40	16.69	17.05
	4H	15.62	16.88	16.02	17.23	17.61	15.62	16.88	16.02	17.23	17.61
	6H	16.10	17.26	16.51	17.63	18.02	16.10	17.26	16.51	17.63	18.02
	8H	16.27	17.38	16.69	17.77	18.17	16.27	17.38	16.69	17.77	18.17
	12H	16.39	17.45	16.82	17.83	18.26	16.39	17.45	16.82	17.83	18.26
4H	2H	14.01	15.27	14.41	15.62	16.00	14.01	15.27	14.41	15.62	16.00
	3H	15.76	16.81	16.17	17.21	17.61	15.76	16.81	16.17	17.21	17.61
	4H	16.50	17.44	16.93	17.86	18.30	16.50	17.44	16.93	17.86	18.30
	6H	17.11	17.94	17.57	18.38	18.84	17.11	17.94	17.57	18.38	18.84
	8H	17.34	18.10	17.80	18.55	19.02	17.34	18.10	17.80	18.55	19.02
	12H	17.51	18.20	17.99	18.68	19.15	17.51	18.20	17.99	18.68	19.15
8H	4H	16.77	17.54	17.24	17.99	18.45	16.77	17.54	17.24	17.99	18.45
	6H	17.52	18.16	18.02	18.65	19.13	17.52	18.16	18.02	18.65	19.13
	8H	17.83	18.40	18.34	18.91	19.40	17.83	18.40	18.34	18.91	19.40
	12H	18.09	18.60	18.60	19.09	19.65	18.09	18.60	18.60	19.09	19.65
12H	4H	16.80	17.49	17.28	17.97	18.44	16.80	17.49	17.28	17.97	18.44
	6H	17.58	18.15	18.09	18.66	19.15	17.58	18.15	18.09	18.66	19.15
	8H	17.95	18.45	18.45	18.94	19.51	17.95	18.45	18.45	18.94	19.51