

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: P867271

Luminaire Tested: PRLX-2004-L-930-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-32L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

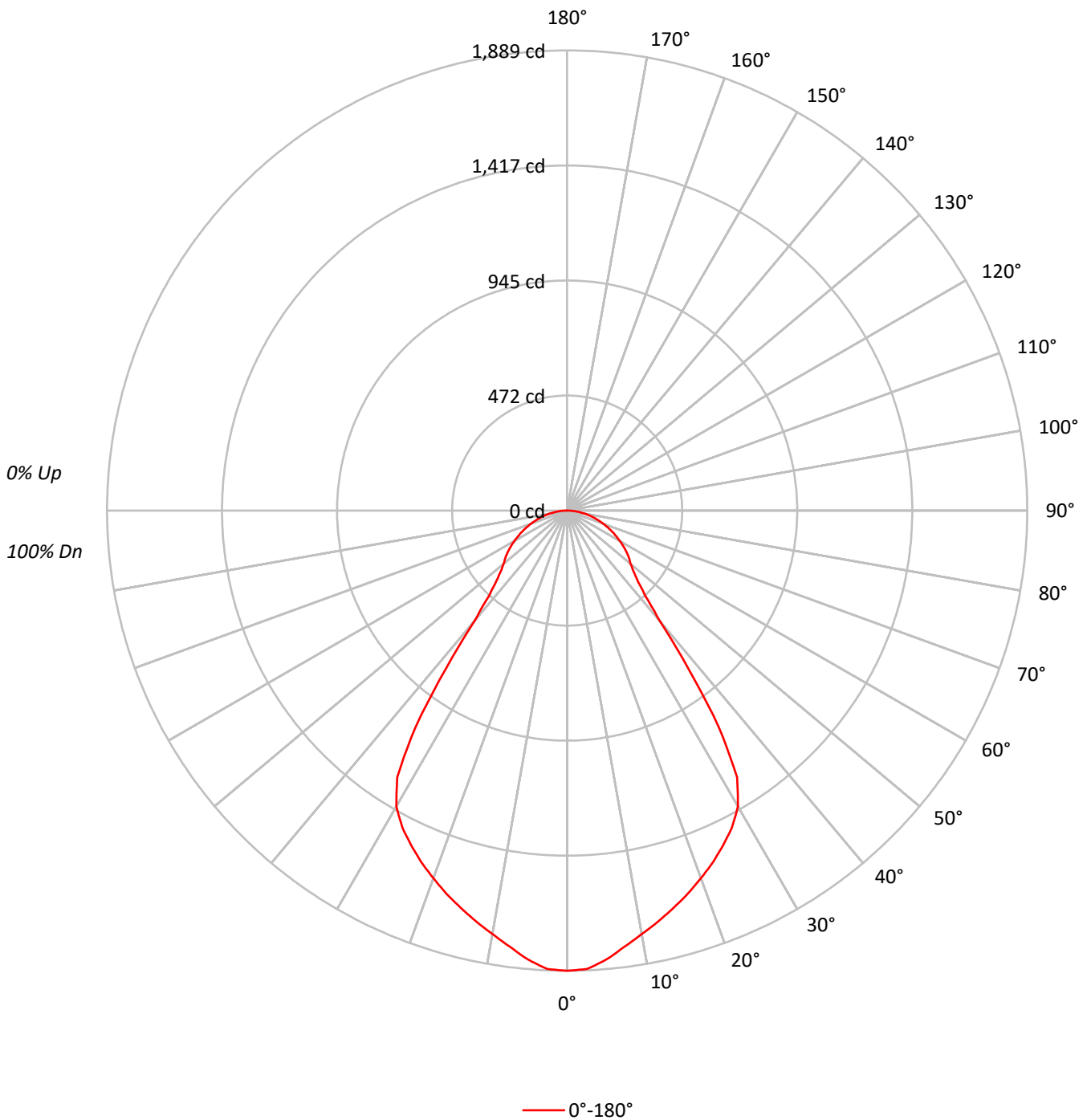
Lumens per Lamp: N/A
Luminaire Lumens: 2953.4 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	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	82	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	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	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	53	48	43	52	47	43	41
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°	9320
5°	9163
10°	8845
15°	8624
20°	8432
25°	8250
30°	7990
35°	6542
40°	3799
45°	2873
50°	2610
55°	2566
60°	2475
65°	2376
70°	2282
75°	2183
80°	2088
85°	2004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	5.9
10°-20°	476.1	16.1
20°-30°	697.2	23.6
30°-40°	648.2	21.9
40°-50°	330.2	11.2
50°-60°	265.7	9.0
60°-70°	201.7	6.8
70°-80°	121.5	4.1
80°-90°	39.1	1.3
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°	1347.0	45.6
0°-40°	1995.2	67.6
0°-60°	2591.1	87.7
0°-90°	2953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1889	
5°	1850	174
15°	1688	476
25°	1516	697
35°	1086	648
45°	412	330
55°	298	266
65°	204	202
75°	114	122
85°	35	39
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1889.1
2.5°	1883.5
5°	1850.1
7.5°	1805.3
10°	1765.5
12.5°	1727.6
15°	1688.3
17.5°	1648.5
20°	1605.9
22.5°	1562.8
25°	1515.5
27.5°	1465.7
30°	1402.4
32.5°	1298.2
35°	1086.1
37.5°	815.1
40°	589.8
42.5°	474.2
45°	411.7
47.5°	367.7
50°	340.1
52.5°	320.2
55°	298.3
57.5°	274.0
60°	250.8
62.5°	226.7
65°	203.5
67.5°	180.6
70°	158.2
72.5°	136.3
75°	114.5
77.5°	94.0
80°	73.5
82.5°	54.5
85°	35.4
87.5°	16.9
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	13.73	15.09	14.10	15.40	15.72	13.73	15.09	14.10	15.40	15.72
	3H	15.53	16.75	15.91	17.08	17.44	15.53	16.75	15.91	17.08	17.44
	4H	16.24	17.38	16.64	17.73	18.11	16.24	17.38	16.64	17.73	18.11
	6H	16.80	17.85	17.21	18.22	18.61	16.80	17.85	17.21	18.22	18.61
	8H	17.00	18.00	17.43	18.39	18.79	17.00	18.00	17.43	18.39	18.79
	12H	17.15	18.10	17.58	18.48	18.91	17.15	18.10	17.58	18.48	18.91
4H	2H	14.32	15.46	14.72	15.81	16.19	14.32	15.46	14.72	15.81	16.19
	3H	16.34	17.29	16.76	17.69	18.09	16.34	17.29	16.76	17.69	18.09
	4H	17.18	18.03	17.62	18.45	18.89	17.18	18.03	17.62	18.45	18.89
	6H	17.88	18.62	18.34	19.06	19.53	17.88	18.62	18.34	19.06	19.53
	8H	18.14	18.83	18.60	19.27	19.74	18.14	18.83	18.60	19.27	19.74
	12H	18.33	18.95	18.82	19.43	19.90	18.33	18.95	18.82	19.43	19.90
8H	4H	17.49	18.18	17.96	18.62	19.09	17.49	18.18	17.96	18.62	19.09
	6H	18.33	18.90	18.83	19.39	19.87	18.33	18.90	18.83	19.39	19.87
	8H	18.68	19.18	19.20	19.70	20.19	18.68	19.18	19.20	19.70	20.19
	12H	18.97	19.42	19.49	19.91	20.48	18.97	19.42	19.49	19.91	20.48
12H	4H	17.52	18.13	18.00	18.61	19.08	17.52	18.13	18.00	18.61	19.08
	6H	18.39	18.90	18.91	19.41	19.91	18.39	18.90	18.91	19.41	19.91
	8H	18.81	19.25	19.32	19.75	20.32	18.81	19.25	19.32	19.75	20.32