

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: P867335

Luminaire Tested: PRLX-2004-L-935-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867335
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: Prenalux
Catalog Number: PRLX-2004-L-935-32L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

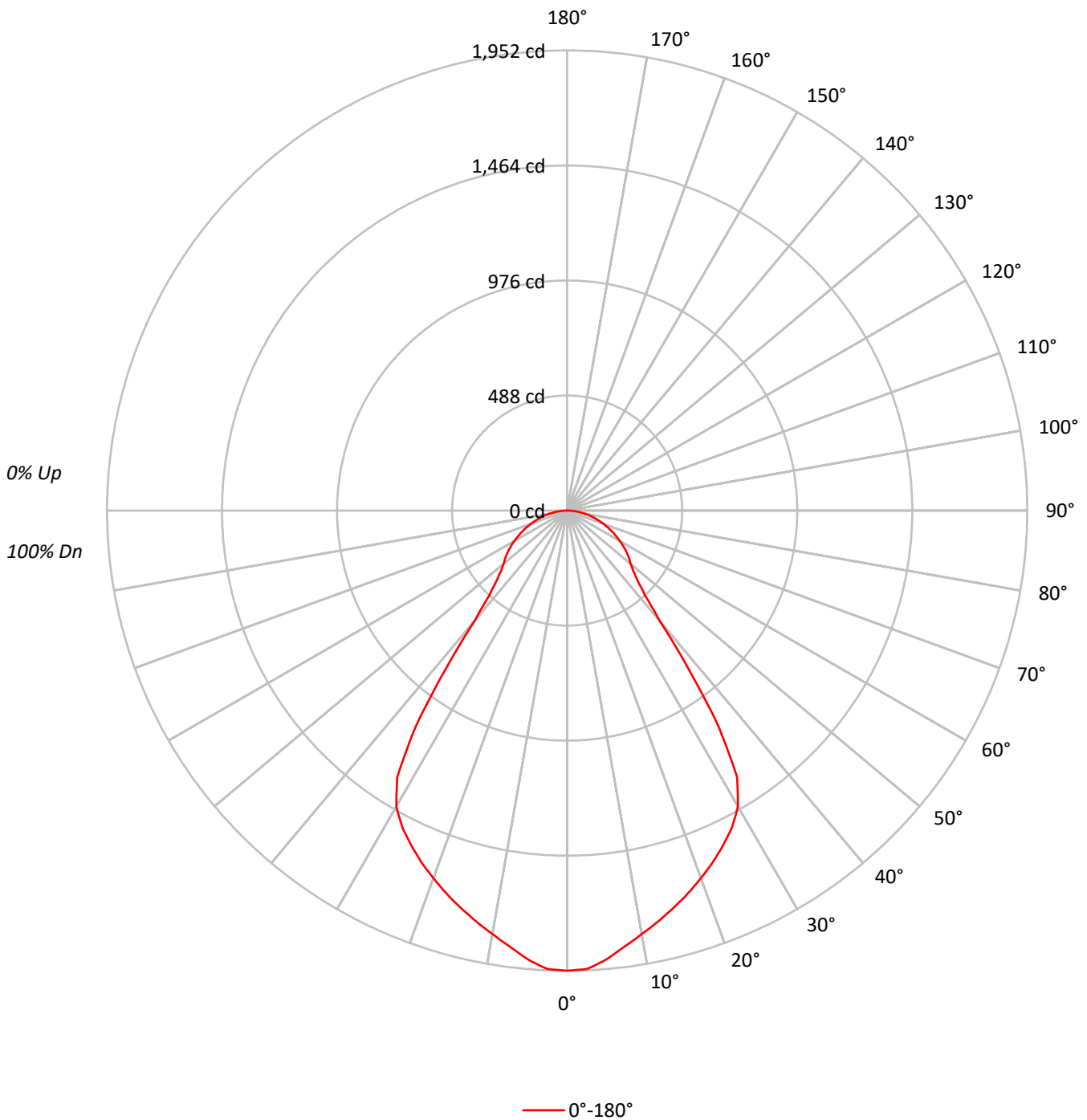
Lumens per Lamp: N/A
Luminaire Lumens: 3051.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	9630
5°	9468
10°	9139
15°	8910
20°	8712
25°	8525
30°	8255
35°	6759
40°	3925
45°	2968
50°	2697
55°	2652
60°	2557
65°	2455
70°	2357
75°	2255
80°	2159
85°	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2968 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	5.9
10°-20°	491.9	16.1
20°-30°	720.3	23.6
30°-40°	669.8	21.9
40°-50°	341.2	11.2
50°-60°	274.5	9.0
60°-70°	208.5	6.8
70°-80°	125.5	4.1
80°-90°	40.4	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°	1391.8	45.6
0°-40°	2061.5	67.6
0°-60°	2677.3	87.7
0°-90°	3051.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1952	
5°	1912	180
15°	1744	492
25°	1566	720
35°	1122	670
45°	425	341
55°	308	275
65°	210	208
75°	118	126
85°	37	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1951.8
2.5°	1946.1
5°	1911.6
7.5°	1865.3
10°	1824.1
12.5°	1785.0
15°	1744.4
17.5°	1703.3
20°	1659.3
22.5°	1614.7
25°	1565.9
27.5°	1514.5
30°	1449.0
32.5°	1341.3
35°	1122.2
37.5°	842.2
40°	609.4
42.5°	490.0
45°	425.4
47.5°	380.0
50°	351.4
52.5°	330.8
55°	308.3
57.5°	283.1
60°	259.1
62.5°	234.3
65°	210.3
67.5°	186.6
70°	163.4
72.5°	140.8
75°	118.3
77.5°	97.1
80°	76.0
82.5°	56.3
85°	36.6
87.5°	17.4
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	13.85	15.20	14.21	15.51	15.83	13.85	15.20	14.21	15.51	15.83
	3H	15.65	16.86	16.03	17.19	17.55	15.65	16.86	16.03	17.19	17.55
	4H	16.35	17.49	16.76	17.84	18.22	16.35	17.49	16.76	17.84	18.22
	6H	16.91	17.96	17.33	18.33	18.72	16.91	17.96	17.33	18.33	18.72
	8H	17.11	18.11	17.54	18.50	18.90	17.11	18.11	17.54	18.50	18.90
	12H	17.26	18.21	17.69	18.59	19.02	17.26	18.21	17.69	18.59	19.02
4H	2H	14.43	15.57	14.84	15.92	16.30	14.43	15.57	14.84	15.92	16.30
	3H	16.46	17.40	16.87	17.80	18.21	16.46	17.40	16.87	17.80	18.21
	4H	17.30	18.15	17.73	18.57	19.01	17.30	18.15	17.73	18.57	19.01
	6H	17.99	18.73	18.46	19.18	19.64	17.99	18.73	18.46	19.18	19.64
	8H	18.25	18.94	18.72	19.39	19.85	18.25	18.94	18.72	19.39	19.85
	12H	18.45	19.06	18.93	19.54	20.01	18.45	19.06	18.93	19.54	20.01
8H	4H	17.60	18.29	18.07	18.74	19.21	17.60	18.29	18.07	18.74	19.21
	6H	18.44	19.01	18.94	19.50	19.98	18.44	19.01	18.94	19.50	19.98
	8H	18.79	19.30	19.31	19.81	20.30	18.79	19.30	19.31	19.81	20.30
	12H	19.09	19.53	19.60	20.02	20.59	19.09	19.53	19.60	20.02	20.59
12H	4H	17.63	18.24	18.11	18.72	19.20	17.63	18.24	18.11	18.72	19.20
	6H	18.51	19.01	19.03	19.53	20.02	18.51	19.01	19.03	19.53	20.02
	8H	18.92	19.37	19.43	19.86	20.43	18.92	19.37	19.43	19.86	20.43