

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: P865811

Luminaire Tested: PRLX-2004-S-930-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-930-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

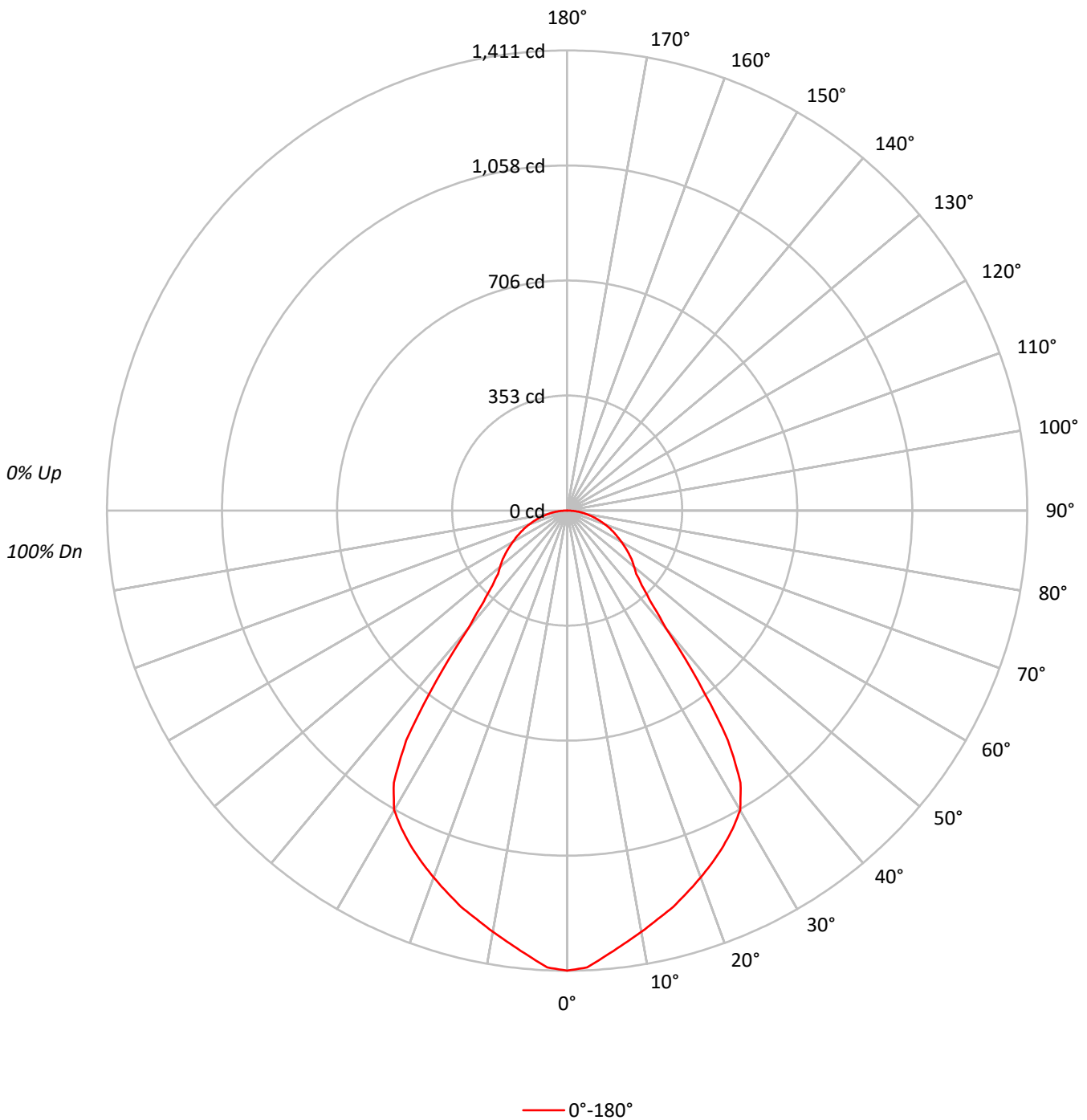
Lumens per Lamp: N/A
Luminaire Lumens: 2261.8 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23009
5°	22425
10°	21719
15°	21232
20°	20774
25°	20411
30°	19978
35°	17119
40°	10028
45°	7476
50°	6798
55°	6574
60°	6273
65°	6086
70°	5870
75°	5716
80°	5476
85°	5259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	5.7
10°-20°	354.2	15.7
20°-30°	522.3	23.1
30°-40°	506.6	22.4
40°-50°	261.0	11.5
50°-60°	206.5	9.1
60°-70°	156.1	6.9
70°-80°	95.2	4.2
80°-90°	30.9	1.4
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°	1005.5	44.5
0°-40°	1512.1	66.9
0°-60°	1979.7	87.5
0°-90°	2261.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1411	
5°	1370	129
15°	1257	354
25°	1134	522
35°	860	507
45°	324	261
55°	231	206
65°	158	156
75°	91	95
85°	28	31
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1410.7
2.5°	1402.1
5°	1369.7
7.5°	1339.4
10°	1311.4
12.5°	1283.3
15°	1257.4
17.5°	1227.1
20°	1196.9
22.5°	1166.6
25°	1134.2
27.5°	1099.6
30°	1060.8
32.5°	989.5
35°	859.8
37.5°	658.9
40°	471.0
42.5°	378.1
45°	324.1
47.5°	287.3
50°	267.9
52.5°	250.6
55°	231.2
57.5°	211.7
60°	192.3
62.5°	175.0
65°	157.7
67.5°	140.4
70°	123.1
72.5°	105.9
75°	90.7
77.5°	73.5
80°	58.3
82.5°	43.2
85°	28.1
87.5°	13.0
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	17.01	18.37	17.37	18.68	19.00	17.01	18.37	17.37	18.68	19.00
	3H	18.83	20.05	19.21	20.38	20.75	18.83	20.05	19.21	20.38	20.75
	4H	19.56	20.70	19.96	21.05	21.44	19.56	20.70	19.96	21.05	21.44
	6H	20.13	21.19	20.55	21.56	21.95	20.13	21.19	20.55	21.56	21.95
	8H	20.34	21.35	20.77	21.74	22.14	20.34	21.35	20.77	21.74	22.14
	12H	20.50	21.45	20.93	21.84	22.27	20.50	21.45	20.93	21.84	22.27
4H	2H	17.60	18.75	18.00	19.10	19.48	17.60	18.75	18.00	19.10	19.48
	3H	19.65	20.60	20.06	21.00	21.40	19.65	20.60	20.06	21.00	21.40
	4H	20.51	21.37	20.95	21.79	22.23	20.51	21.37	20.95	21.79	22.23
	6H	21.23	21.97	21.69	22.42	22.88	21.23	21.97	21.69	22.42	22.88
	8H	21.49	22.19	21.96	22.63	23.10	21.49	22.19	21.96	22.63	23.10
	12H	21.70	22.32	22.18	22.80	23.27	21.70	22.32	22.18	22.80	23.27
8H	4H	20.83	21.52	21.29	21.97	22.44	20.83	21.52	21.29	21.97	22.44
	6H	21.69	22.26	22.19	22.75	23.23	21.69	22.26	22.19	22.75	23.23
	8H	22.05	22.56	22.57	23.07	23.56	22.05	22.56	22.57	23.07	23.56
	12H	22.35	22.80	22.86	23.29	23.86	22.35	22.80	22.86	23.29	23.86
12H	4H	20.86	21.48	21.34	21.96	22.43	20.86	21.48	21.34	21.96	22.43
	6H	21.76	22.27	22.28	22.78	23.27	21.76	22.27	22.28	22.78	23.27
	8H	22.18	22.63	22.70	23.13	23.69	22.18	22.63	22.70	23.13	23.69