

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: P865771

Luminaire Tested: PRLX-2004-S-927-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865771
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-927-25L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

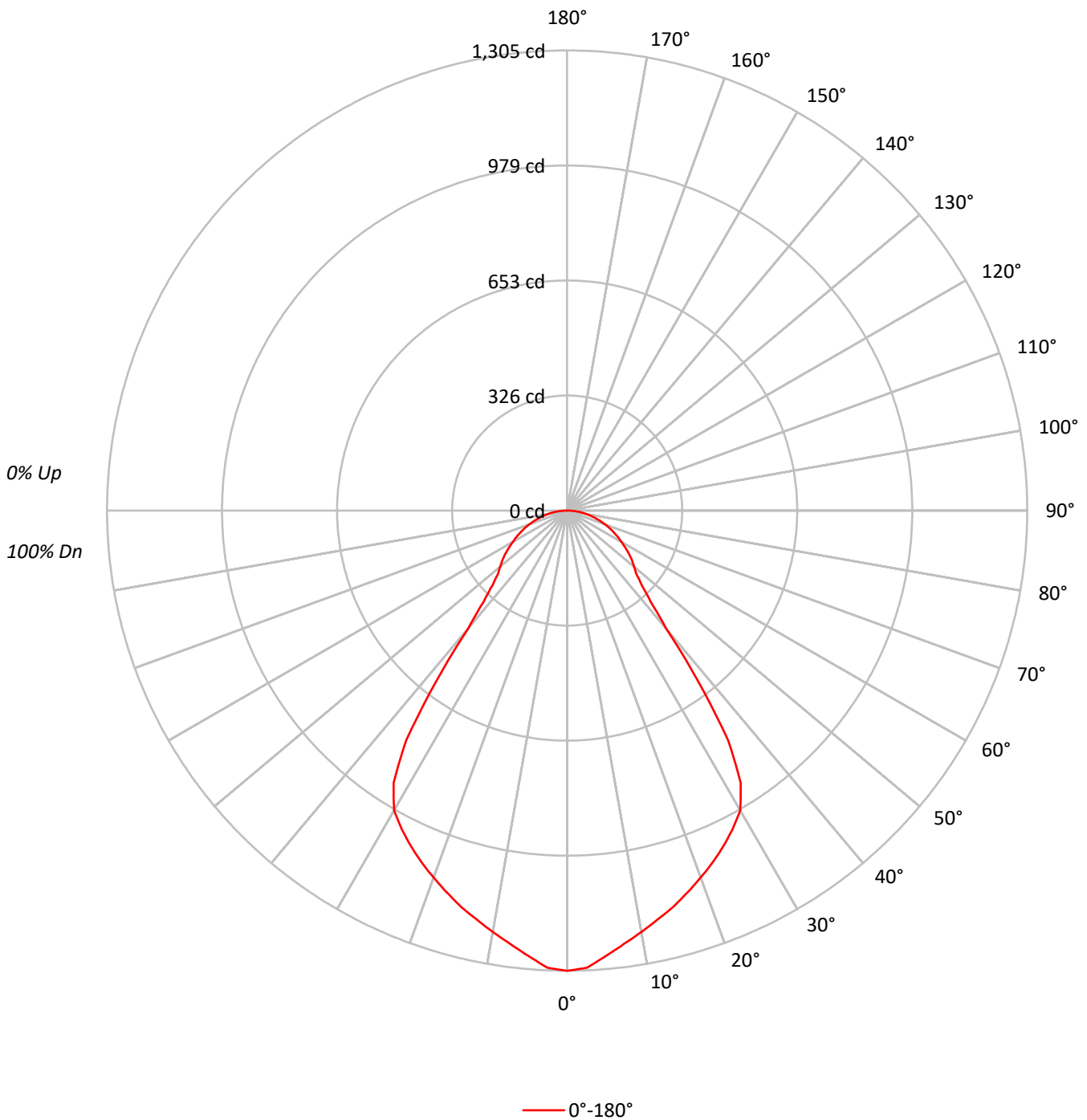
Lumens per Lamp: N/A
Luminaire Lumens: 2092.8 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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°	21290
5°	20749
10°	20094
15°	19645
20°	19221
25°	18885
30°	18485
35°	15841
40°	9279
45°	6915
50°	6290
55°	6082
60°	5803
65°	5631
70°	5432
75°	5293
80°	5072
85°	4866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	5.7
10°-20°	327.8	15.7
20°-30°	483.2	23.1
30°-40°	468.8	22.4
40°-50°	241.5	11.5
50°-60°	191.1	9.1
60°-70°	144.4	6.9
70°-80°	88.1	4.2
80°-90°	28.6	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°	930.3	44.5
0°-40°	1399.1	66.9
0°-60°	1831.7	87.5
0°-90°	2092.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1305	
5°	1267	119
15°	1163	328
25°	1049	483
35°	796	469
45°	300	242
55°	214	191
65°	146	144
75°	84	88
85°	26	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1305.3
2.5°	1297.3
5°	1267.3
7.5°	1239.3
10°	1213.3
12.5°	1187.4
15°	1163.4
17.5°	1135.4
20°	1107.4
22.5°	1079.4
25°	1049.4
27.5°	1017.4
30°	981.5
32.5°	915.5
35°	795.6
37.5°	609.7
40°	435.8
42.5°	349.8
45°	299.8
47.5°	265.9
50°	247.9
52.5°	231.9
55°	213.9
57.5°	195.9
60°	177.9
62.5°	161.9
65°	145.9
67.5°	129.9
70°	113.9
72.5°	97.9
75°	84.0
77.5°	68.0
80°	54.0
82.5°	40.0
85°	26.0
87.5°	12.0
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	16.74	18.10	17.10	18.41	18.73	16.74	18.10	17.10	18.41	18.73
	3H	18.56	19.78	18.94	20.11	20.48	18.56	19.78	18.94	20.11	20.48
	4H	19.29	20.44	19.69	20.79	21.17	19.29	20.44	19.69	20.79	21.17
	6H	19.86	20.92	20.28	21.29	21.68	19.86	20.92	20.28	21.29	21.68
	8H	20.07	21.08	20.50	21.47	21.87	20.07	21.08	20.50	21.47	21.87
	12H	20.23	21.19	20.66	21.57	22.00	20.23	21.19	20.66	21.57	22.00
4H	2H	17.33	18.48	17.73	18.83	19.21	17.33	18.48	17.73	18.83	19.21
	3H	19.38	20.33	19.79	20.73	21.13	19.38	20.33	19.79	20.73	21.13
	4H	20.25	21.10	20.68	21.52	21.96	20.25	21.10	20.68	21.52	21.96
	6H	20.96	21.70	21.42	22.15	22.61	20.96	21.70	21.42	22.15	22.61
	8H	21.22	21.92	21.69	22.37	22.84	21.22	21.92	21.69	22.37	22.84
	12H	21.43	22.05	21.92	22.53	23.00	21.43	22.05	21.92	22.53	23.00
8H	4H	20.56	21.25	21.03	21.70	22.17	20.56	21.25	21.03	21.70	22.17
	6H	21.42	21.99	21.92	22.49	22.97	21.42	21.99	21.92	22.49	22.97
	8H	21.78	22.29	22.30	22.80	23.29	21.78	22.29	22.30	22.80	23.29
	12H	22.08	22.53	22.60	23.03	23.60	22.08	22.53	22.60	23.03	23.60
12H	4H	20.59	21.21	21.07	21.69	22.16	20.59	21.21	21.07	21.69	22.16
	6H	21.49	22.00	22.01	22.51	23.00	21.49	22.00	22.01	22.51	23.00
	8H	21.91	22.36	22.43	22.86	23.43	21.91	22.36	22.43	22.86	23.43