

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: P866427

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

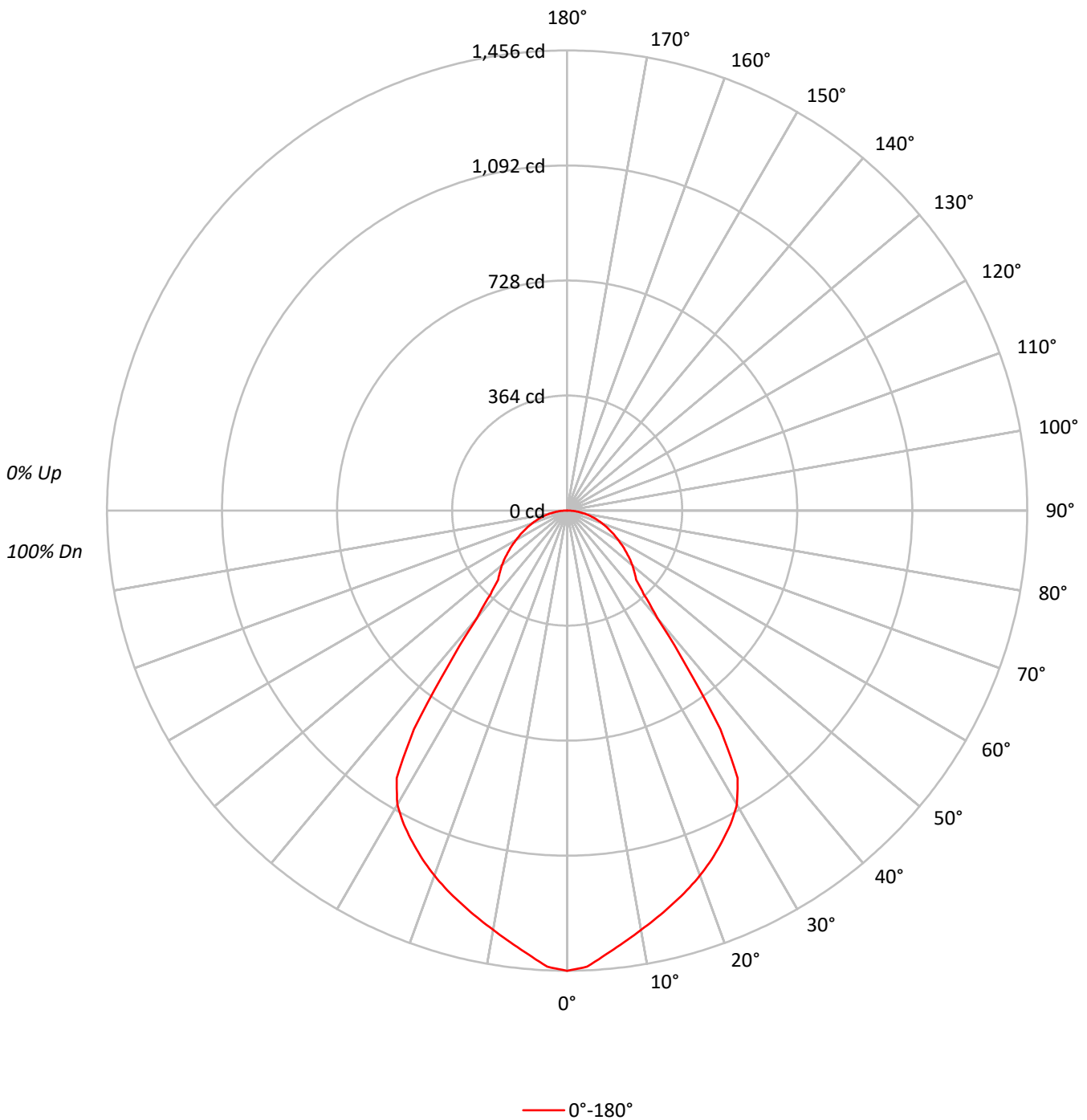
Lumens per Lamp: N/A
Luminaire Lumens: 2255.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): 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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	11587
5°	11256
10°	10884
15°	10616
20°	10403
25°	10162
30°	9871
35°	8206
40°	4618
45°	3475
50°	3337
55°	3158
60°	2977
65°	2829
70°	2729
75°	2653
80°	2589
85°	2547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	5.9
10°-20°	363.6	16.1
20°-30°	533.0	23.6
30°-40°	497.9	22.1
40°-50°	252.5	11.2
50°-60°	203.9	9.0
60°-70°	149.9	6.6
70°-80°	91.2	4.0
80°-90°	30.5	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°	1029.3	45.6
0°-40°	1527.2	67.7
0°-60°	1983.6	88.0
0°-90°	2255.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2255.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1456	
5°	1410	133
15°	1289	364
25°	1158	533
35°	845	498
45°	309	253
55°	228	204
65°	150	150
75°	86	91
85°	28	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1456.4
2.5°	1444.4
5°	1409.5
7.5°	1377.7
10°	1347.3
12.5°	1318.1
15°	1288.9
17.5°	1259.8
20°	1228.7
22.5°	1195.1
25°	1157.6
27.5°	1119.6
30°	1074.5
32.5°	1003.5
35°	844.9
37.5°	615.9
40°	444.7
42.5°	358.4
45°	308.9
47.5°	288.6
50°	269.6
52.5°	248.7
55°	227.7
57.5°	207.4
60°	187.1
62.5°	169.4
65°	150.3
67.5°	133.8
70°	117.3
72.5°	101.5
75°	86.3
77.5°	71.0
80°	56.5
82.5°	41.9
85°	27.9
87.5°	14.0
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	14.39	15.74	14.76	16.06	16.37	14.39	15.74	14.76	16.06	16.37
	3H	16.13	17.34	16.51	17.67	18.04	16.13	17.34	16.51	17.67	18.04
	4H	16.84	17.98	17.24	18.33	18.71	16.84	17.98	17.24	18.33	18.71
	6H	17.42	18.46	17.83	18.83	19.22	17.42	18.46	17.83	18.83	19.22
	8H	17.63	18.62	18.06	19.01	19.42	17.63	18.62	18.06	19.01	19.42
	12H	17.79	18.74	18.22	19.12	19.55	17.79	18.74	18.22	19.12	19.55
4H	2H	14.95	16.08	15.35	16.43	16.81	14.95	16.08	15.35	16.43	16.81
	3H	16.92	17.86	17.33	18.27	18.67	16.92	17.86	17.33	18.27	18.67
	4H	17.77	18.62	18.21	19.04	19.48	17.77	18.62	18.21	19.04	19.48
	6H	18.49	19.23	18.95	19.67	20.14	18.49	19.23	18.95	19.67	20.14
	8H	18.76	19.45	19.23	19.89	20.36	18.76	19.45	19.23	19.89	20.36
	12H	18.97	19.58	19.46	20.07	20.54	18.97	19.58	19.46	20.07	20.54
8H	4H	18.08	18.77	18.55	19.21	19.68	18.08	18.77	18.55	19.21	19.68
	6H	18.95	19.51	19.45	20.01	20.49	18.95	19.51	19.45	20.01	20.49
	8H	19.31	19.82	19.83	20.33	20.82	19.31	19.82	19.83	20.33	20.82
	12H	19.63	20.08	20.14	20.57	21.14	19.63	20.08	20.14	20.57	21.14
12H	4H	18.11	18.72	18.60	19.20	19.68	18.11	18.72	18.60	19.20	19.68
	6H	19.02	19.53	19.54	20.04	20.53	19.02	19.53	19.54	20.04	20.53
	8H	19.45	19.89	19.96	20.39	20.96	19.45	19.89	19.96	20.39	20.96