

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: P866627

Luminaire Tested: PRLX-2004-M-940-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866627  
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-940-35L-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 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

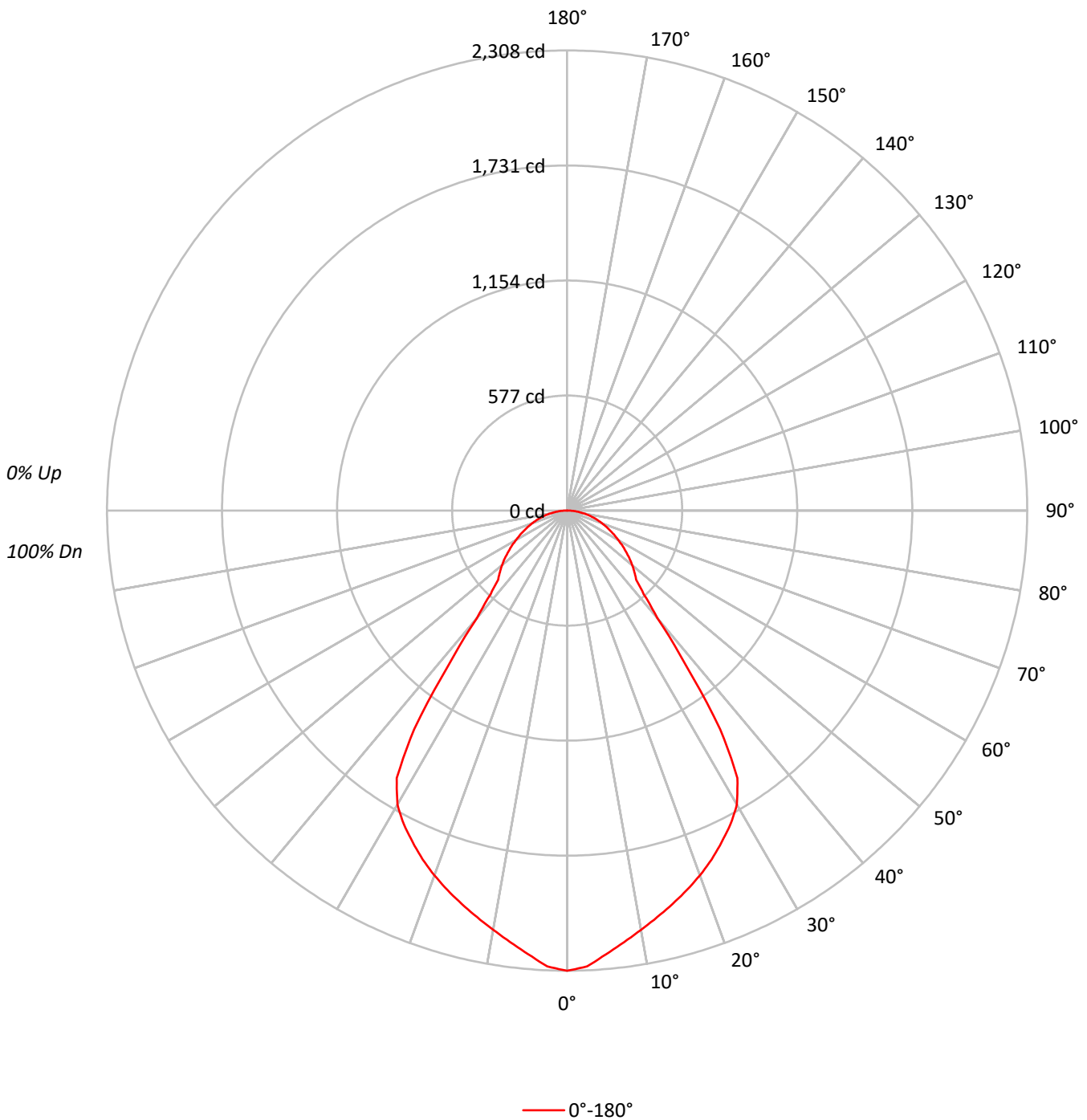
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3573.6 lumens  
Efficiency: N/A  
Efficacy: 119.1 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): 30  
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°	18362
5°	17838
10°	17248
15°	16824
20°	16485
25°	16104
30°	15643
35°	13004
40°	7319
45°	5507
50°	5287
55°	5006
60°	4718
65°	4484
70°	4327
75°	4202
80°	4100
85°	4035

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5507 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.2	5.9
10°-20°	576.2	16.1
20°-30°	844.6	23.6
30°-40°	789.0	22.1
40°-50°	400.1	11.2
50°-60°	323.1	9.0
60°-70°	237.5	6.6
70°-80°	144.5	4.0
80°-90°	48.3	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°	1631.1	45.6
0°-40°	2420.1	67.7
0°-60°	3143.3	88.0
0°-90°	3573.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3573.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2308	
5°	2234	210
15°	2043	576
25°	1834	845
35°	1339	789
45°	490	400
55°	361	323
65°	238	238
75°	137	145
85°	44	48
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2308.0
2.5°	2288.9
5°	2233.6
7.5°	2183.3
10°	2135.1
12.5°	2088.8
15°	2042.6
17.5°	1996.3
20°	1947.1
22.5°	1893.8
25°	1834.5
27.5°	1774.2
30°	1702.8
32.5°	1590.2
35°	1338.9
37.5°	976.1
40°	704.7
42.5°	567.9
45°	489.5
47.5°	457.4
50°	427.2
52.5°	394.0
55°	360.9
57.5°	328.7
60°	296.5
62.5°	268.4
65°	238.2
67.5°	212.1
70°	186.0
72.5°	160.8
75°	136.7
77.5°	112.6
80°	89.5
82.5°	66.3
85°	44.2
87.5°	22.1
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	15.99	17.34	16.36	17.66	17.97	15.99	17.34	16.36	17.66	17.97
	3H	17.73	18.94	18.11	19.27	19.64	17.73	18.94	18.11	19.27	19.64
	4H	18.44	19.58	18.84	19.93	20.31	18.44	19.58	18.84	19.93	20.31
	6H	19.02	20.06	19.43	20.43	20.83	19.02	20.06	19.43	20.43	20.83
	8H	19.23	20.22	19.66	20.61	21.02	19.23	20.22	19.66	20.61	21.02
	12H	19.39	20.34	19.82	20.72	21.15	19.39	20.34	19.82	20.72	21.15
4H	2H	16.55	17.68	16.95	18.03	18.41	16.55	17.68	16.95	18.03	18.41
	3H	18.52	19.47	18.94	19.87	20.27	18.52	19.47	18.94	19.87	20.27
	4H	19.37	20.22	19.81	20.64	21.08	19.37	20.22	19.81	20.64	21.08
	6H	20.09	20.83	20.55	21.27	21.74	20.09	20.83	20.55	21.27	21.74
	8H	20.36	21.05	20.83	21.49	21.96	20.36	21.05	20.83	21.49	21.96
	12H	20.57	21.18	21.06	21.67	22.14	20.57	21.18	21.06	21.67	22.14
8H	4H	19.68	20.37	20.15	20.81	21.28	19.68	20.37	20.15	20.81	21.28
	6H	20.55	21.12	21.05	21.61	22.09	20.55	21.12	21.05	21.61	22.09
	8H	20.91	21.42	21.43	21.93	22.42	20.91	21.42	21.43	21.93	22.42
	12H	21.23	21.67	21.74	22.17	22.74	21.23	21.67	21.74	22.17	22.74
12H	4H	19.71	20.32	20.20	20.80	21.28	19.71	20.32	20.20	20.80	21.28
	6H	20.62	21.13	21.14	21.64	22.13	20.62	21.13	21.14	21.64	22.13
	8H	21.05	21.49	21.56	21.99	22.56	21.05	21.49	21.56	21.99	22.56