

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: P866177

Luminaire Tested: PRLX-2002-M-927-35L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-927-35L-L-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

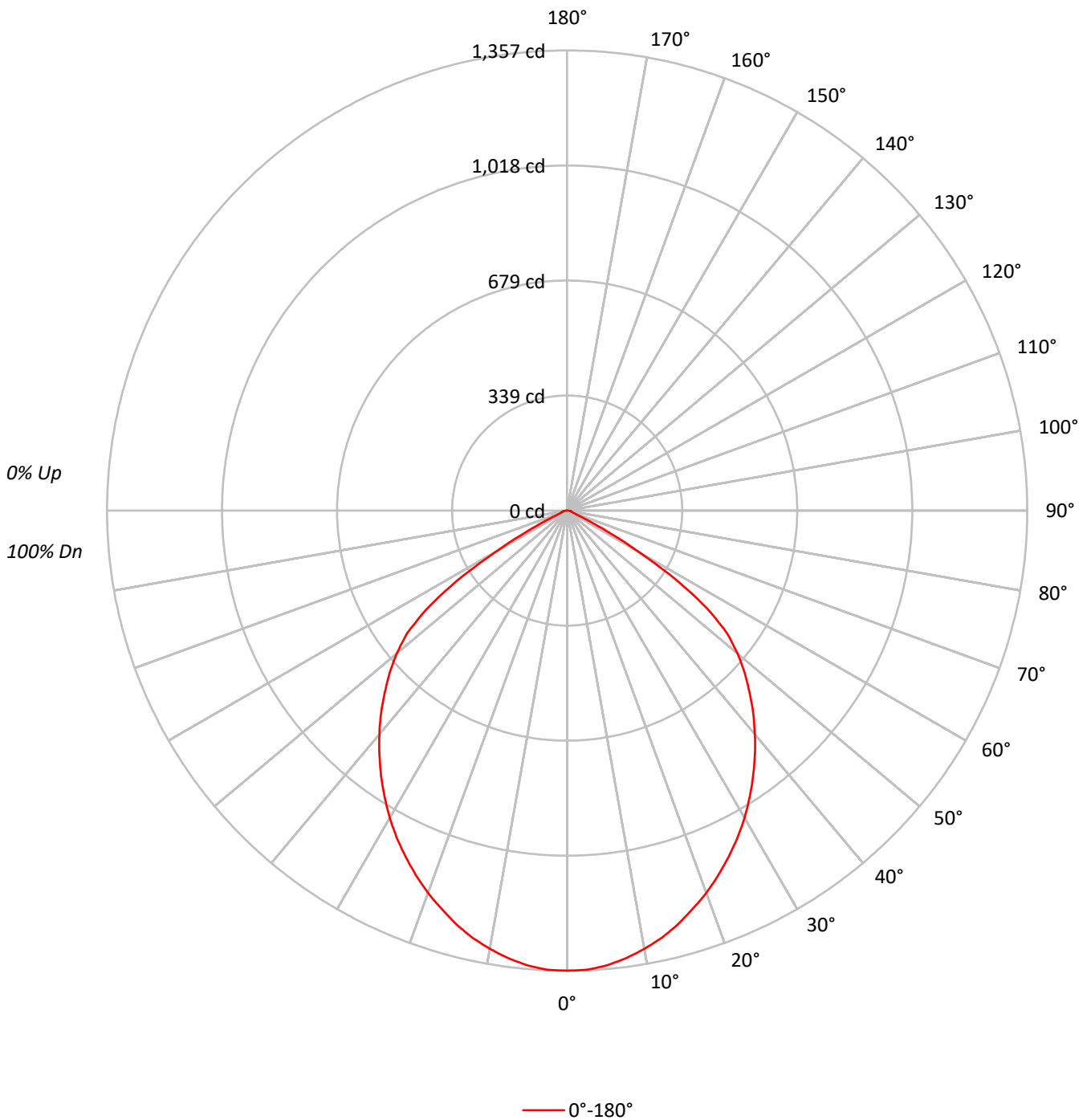
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2724.6 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Circular (Dia: 1.31' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34		44	38	33		43	37	33	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	10795
5°	10752
10°	10603
15°	10401
20°	10158
25°	9892
30°	9610
35°	9289
40°	8946
45°	8563
50°	8123
55°	6996
60°	3857
65°	1086
70°	433
75°	464
80°	527
85°	648

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8563 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	4.7
10°-20°	355.6	13.1
20°-30°	518.9	19.0
30°-40°	597.9	21.9
40°-50°	587.0	21.5
50°-60°	430.5	15.8
60°-70°	84.3	3.1
70°-80°	15.9	0.6
80°-90°	7.1	0.3
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°	1001.9	36.8
0°-40°	1599.7	58.7
0°-60°	2617.2	96.1
0°-90°	2724.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1357	
5°	1346	127
15°	1263	356
25°	1127	519
35°	956	598
45°	761	587
55°	504	430
65°	58	84
75°	15	16
85°	7	7
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1356.9
2.5°	1355.2
5°	1346.3
7.5°	1331.2
10°	1312.5
12.5°	1290.3
15°	1262.8
17.5°	1231.7
20°	1199.8
22.5°	1164.2
25°	1126.9
27.5°	1087.9
30°	1046.1
32.5°	1001.7
35°	956.4
37.5°	909.4
40°	861.4
42.5°	812.6
45°	761.1
47.5°	710.4
50°	656.3
52.5°	595.0
55°	504.4
57.5°	386.3
60°	242.4
62.5°	130.5
65°	57.7
67.5°	26.6
70°	18.6
72.5°	16.9
75°	15.1
77.5°	13.3
80°	11.5
82.5°	9.8
85°	7.1
87.5°	3.6
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	17.81	19.24	18.18	19.55	19.87	17.81	19.24	18.18	19.55	19.87
	3H	17.72	18.97	18.10	19.30	19.67	17.72	18.97	18.10	19.30	19.67
	4H	17.66	18.83	18.06	19.18	19.56	17.66	18.83	18.06	19.18	19.56
	6H	17.61	18.68	18.02	19.05	19.44	17.61	18.68	18.02	19.05	19.44
	8H	17.58	18.60	18.01	18.99	19.39	17.58	18.60	18.01	18.99	19.39
	12H	17.55	18.52	17.98	18.91	19.34	17.55	18.52	17.98	18.91	19.34
4H	2H	17.67	18.84	18.07	19.19	19.57	17.67	18.84	18.07	19.19	19.57
	3H	17.59	18.53	18.00	18.94	19.34	17.59	18.53	18.00	18.94	19.34
	4H	17.53	18.37	17.96	18.79	19.23	17.53	18.37	17.96	18.79	19.23
	6H	17.49	18.21	17.95	18.65	19.12	17.49	18.21	17.95	18.65	19.12
	8H	17.45	18.13	17.92	18.57	19.04	17.45	18.13	17.92	18.57	19.04
	12H	17.43	18.03	17.91	18.51	18.98	17.43	18.03	17.91	18.51	18.98
8H	4H	17.41	18.09	17.88	18.54	19.01	17.41	18.09	17.88	18.54	19.01
	6H	17.36	17.91	17.86	18.41	18.89	17.36	17.91	17.86	18.41	18.89
	8H	17.32	17.83	17.84	18.34	18.83	17.32	17.83	17.84	18.34	18.83
	12H	17.31	17.76	17.82	18.25	18.82	17.31	17.76	17.82	18.25	18.82
12H	4H	17.37	17.97	17.86	18.46	18.93	17.37	17.97	17.86	18.46	18.93
	6H	17.30	17.81	17.82	18.32	18.81	17.30	17.81	17.82	18.32	18.81
	8H	17.29	17.74	17.80	18.23	18.80	17.29	17.74	17.80	18.23	18.80