

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: P866110

Luminaire Tested: PRLX-2001-M-940-35L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-M-940-35L-G-U-S-X-X-GREY-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH GRAY INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

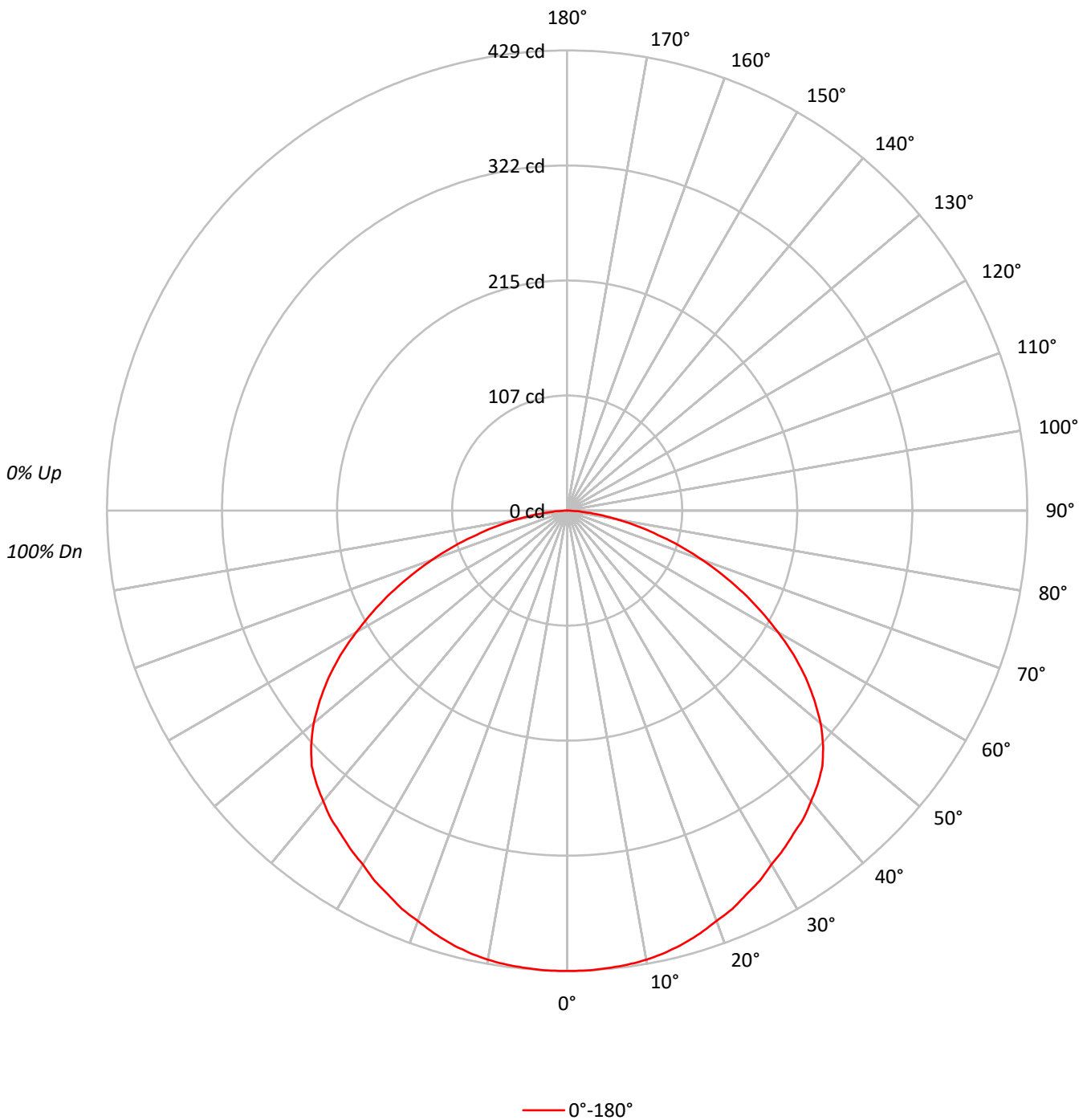
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1365.0 lumens  
Efficiency: N/A  
Efficacy: 45.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49  
Luminous Opening: Circular (Dia: 1.27' 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°
0°	3642
5°	3648
10°	3664
15°	3674
20°	3676
25°	3698
30°	3733
35°	3811
40°	3919
45°	4041
50°	4074
55°	4015
60°	3856
65°	3632
70°	3317
75°	2869
80°	2307
85°	1568

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4074 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.8	3.0
10°-20°	118.1	8.6
20°-30°	182.5	13.4
30°-40°	230.9	16.9
40°-50°	258.5	18.9
50°-60°	241.6	17.7
60°-70°	178.6	13.1
70°-80°	93.8	6.9
80°-90°	20.4	1.5
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°	341.3	25.0
0°-40°	572.2	41.9
0°-60°	1072.2	78.6
0°-90°	1365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	429	
5°	428	41
15°	418	118
25°	395	182
35°	368	231
45°	337	258
55°	271	242
65°	181	179
75°	88	94
85°	16	20
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	429.2
2.5°	429.2
5°	428.2
7.5°	427.2
10°	425.2
12.5°	422.2
15°	418.2
17.5°	413.1
20°	407.1
22.5°	402.1
25°	395.0
27.5°	389.0
30°	381.0
32.5°	374.9
35°	367.9
37.5°	361.9
40°	353.8
42.5°	345.8
45°	336.7
47.5°	323.7
50°	308.6
52.5°	290.5
55°	271.4
57.5°	250.3
60°	227.2
62.5°	204.1
65°	180.9
67.5°	156.8
70°	133.7
72.5°	110.6
75°	87.5
77.5°	67.3
80°	47.2
82.5°	30.2
85°	16.1
87.5°	5.0
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	17.26	18.93	17.62	19.25	19.56	17.26	18.93	17.62	19.25	19.56
	3H	18.92	20.43	19.30	20.76	21.12	18.92	20.43	19.30	20.76	21.12
	4H	19.48	20.91	19.88	21.25	21.63	19.48	20.91	19.88	21.25	21.63
	6H	19.84	21.16	20.25	21.53	21.92	19.84	21.16	20.25	21.53	21.92
	8H	19.93	21.19	20.36	21.58	21.98	19.93	21.19	20.36	21.58	21.98
	12H	19.98	21.19	20.41	21.57	22.00	19.98	21.19	20.41	21.57	22.00
4H	2H	17.87	19.29	18.26	19.64	20.01	17.87	19.29	18.26	19.64	20.01
	3H	19.74	20.93	20.14	21.33	21.73	19.74	20.93	20.14	21.33	21.73
	4H	20.41	21.49	20.84	21.90	22.33	20.41	21.49	20.84	21.90	22.33
	6H	20.87	21.82	21.33	22.26	22.71	20.87	21.82	21.33	22.26	22.71
	8H	21.00	21.88	21.46	22.32	22.78	21.00	21.88	21.46	22.32	22.78
	12H	21.07	21.86	21.55	22.34	22.80	21.07	21.86	21.55	22.34	22.80
8H	4H	20.67	21.55	21.13	21.99	22.46	20.67	21.55	21.13	21.99	22.46
	6H	21.22	21.96	21.72	22.44	22.92	21.22	21.96	21.72	22.44	22.92
	8H	21.39	22.05	21.90	22.55	23.04	21.39	22.05	21.90	22.55	23.04
	12H	21.51	22.09	22.01	22.58	23.14	21.51	22.09	22.01	22.58	23.14
12H	4H	20.69	21.48	21.17	21.96	22.42	20.69	21.48	21.17	21.96	22.42
	6H	21.25	21.91	21.76	22.42	22.90	21.25	21.91	21.76	22.42	22.90
	8H	21.47	22.05	21.97	22.54	23.10	21.47	22.05	21.97	22.54	23.10