

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: P866365

Luminaire Tested: PRLX-2002-M-940-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-M-940-35L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

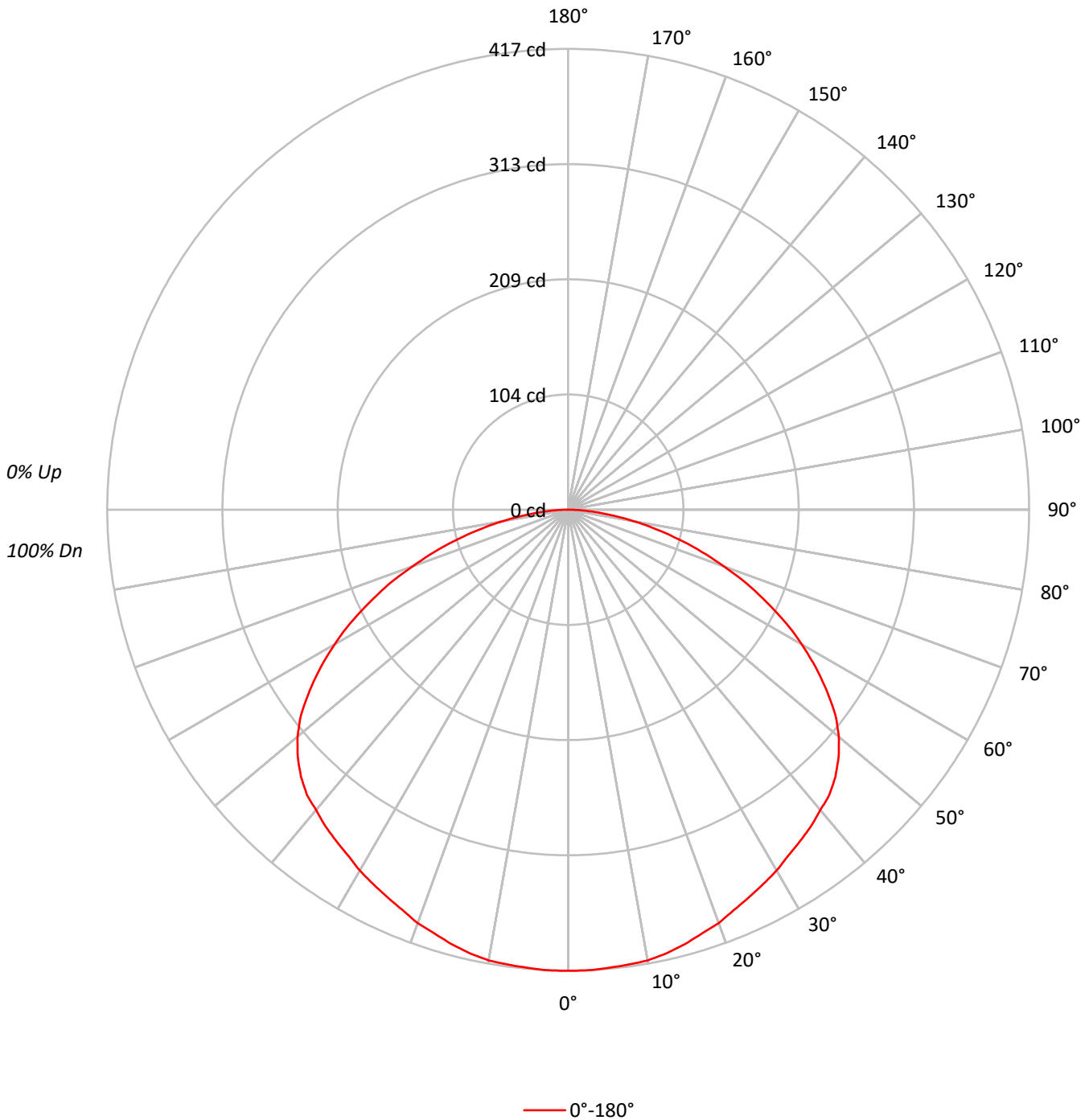
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1415.5 lumens  
Efficiency: N/A  
Efficacy: 47.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53  
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°
0°	3319
5°	3324
10°	3345
15°	3353
20°	3370
25°	3397
30°	3463
35°	3554
40°	3685
45°	3846
50°	3957
55°	3960
60°	3887
65°	3727
70°	3485
75°	3181
80°	2763
85°	2200

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 3981 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	2.8
10°-20°	115.0	8.1
20°-30°	178.9	12.6
30°-40°	229.6	16.2
40°-50°	263.0	18.6
50°-60°	254.5	18.0
60°-70°	196.0	13.8
70°-80°	109.8	7.8
80°-90°	29.0	2.0
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°	333.6	23.6
0°-40°	563.2	39.8
0°-60°	1080.7	76.3
0°-90°	1415.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	417	
5°	416	40
15°	407	115
25°	387	179
35°	366	230
45°	342	263
55°	286	254
65°	198	196
75°	104	110
85°	24	29
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	417.2
2.5°	417.2
5°	416.2
7.5°	415.2
10°	414.1
12.5°	411.1
15°	407.1
17.5°	402.1
20°	398.1
22.5°	392.0
25°	387.0
27.5°	382.0
30°	377.0
32.5°	370.9
35°	365.9
37.5°	360.9
40°	354.8
42.5°	349.8
45°	341.8
47.5°	331.7
50°	319.7
52.5°	304.6
55°	285.5
57.5°	265.4
60°	244.3
62.5°	222.2
65°	198.0
67.5°	174.9
70°	149.8
72.5°	126.7
75°	103.5
77.5°	81.4
80°	60.3
82.5°	41.2
85°	24.1
87.5°	11.1
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	17.28	18.99	17.65	19.30	19.61	17.28	18.99	17.65	19.30	19.61
	3H	19.09	20.64	19.47	20.96	21.32	19.09	20.64	19.47	20.96	21.32
	4H	19.75	21.20	20.14	21.55	21.92	19.75	21.20	20.14	21.55	21.92
	6H	20.21	21.56	20.62	21.92	22.31	20.21	21.56	20.62	21.92	22.31
	8H	20.35	21.64	20.77	22.03	22.43	20.35	21.64	20.77	22.03	22.43
	12H	20.43	21.67	20.86	22.06	22.48	20.43	21.67	20.86	22.06	22.48
4H	2H	17.94	19.39	18.33	19.74	20.11	17.94	19.39	18.33	19.74	20.11
	3H	19.95	21.18	20.36	21.58	21.97	19.95	21.18	20.36	21.58	21.97
	4H	20.73	21.84	21.16	22.25	22.69	20.73	21.84	21.16	22.25	22.69
	6H	21.32	22.29	21.77	22.73	23.18	21.32	22.29	21.77	22.73	23.18
	8H	21.50	22.41	21.96	22.85	23.31	21.50	22.41	21.96	22.85	23.31
	12H	21.63	22.45	22.11	22.92	23.39	21.63	22.45	22.11	22.92	23.39
8H	4H	21.04	21.95	21.50	22.39	22.86	21.04	21.95	21.50	22.39	22.86
	6H	21.74	22.50	22.23	22.98	23.46	21.74	22.50	22.23	22.98	23.46
	8H	21.99	22.67	22.49	23.17	23.66	21.99	22.67	22.49	23.17	23.66
	12H	22.18	22.78	22.68	23.27	23.83	22.18	22.78	22.68	23.27	23.83
12H	4H	21.08	21.90	21.55	22.37	22.84	21.08	21.90	21.55	22.37	22.84
	6H	21.79	22.47	22.30	22.98	23.46	21.79	22.47	22.30	22.98	23.46
	8H	22.09	22.70	22.60	23.19	23.74	22.09	22.70	22.60	23.19	23.74