

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: P867105

Luminaire Tested: PRLX-2002-L-935-83L-G-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P867105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-L-935-83L-G-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

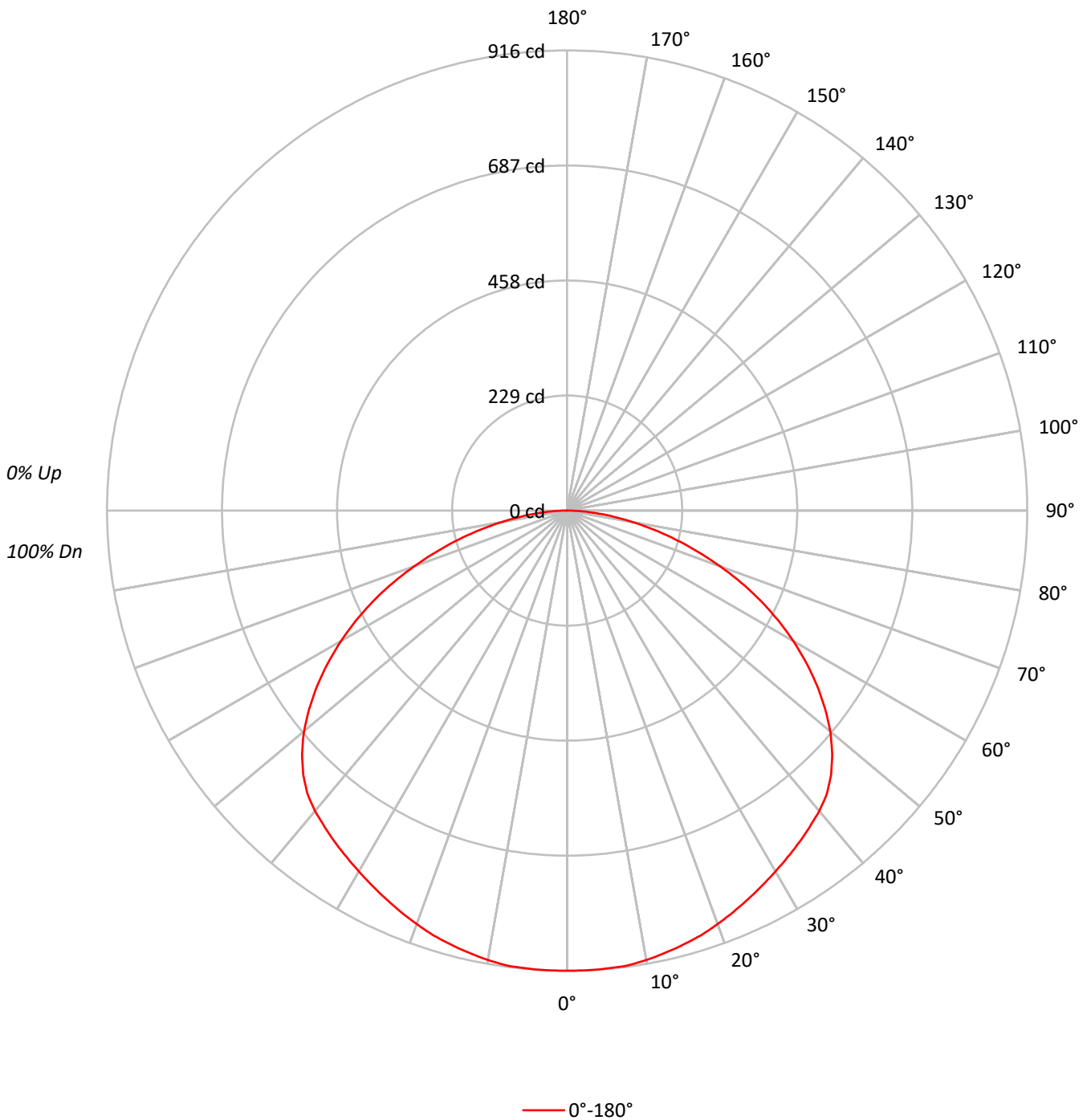
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3076.2 lumens  
Efficiency: N/A  
Efficacy: 47.7 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 64.5  
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	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

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

	0°
0°	4519
5°	4532
10°	4552
15°	4569
20°	4599
25°	4644
30°	4726
35°	4853
40°	5028
45°	5184
50°	5249
55°	5222
60°	5131
65°	4966
70°	4667
75°	4280
80°	3819
85°	3136

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 5249 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	2.8
10°-20°	252.9	8.2
20°-30°	394.2	12.8
30°-40°	505.4	16.4
40°-50°	571.3	18.6
50°-60°	541.6	17.6
60°-70°	419.6	13.6
70°-80°	238.6	7.8
80°-90°	65.5	2.1
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°	734.2	23.9
0°-40°	1239.6	40.3
0°-60°	2352.6	76.5
0°-90°	3076.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	916	
5°	915	87
15°	894	253
25°	853	394
35°	806	505
45°	743	571
55°	607	542
65°	425	420
75°	224	239
85°	55	66
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	915.9
2.5°	915.9
5°	915.1
7.5°	913.7
10°	908.5
12.5°	901.8
15°	894.5
17.5°	886.3
20°	876.0
22.5°	864.9
25°	853.1
27.5°	841.3
30°	829.5
32.5°	817.6
35°	805.8
37.5°	793.3
40°	780.7
42.5°	765.2
45°	743.0
47.5°	715.7
50°	683.9
52.5°	647.0
55°	607.1
57.5°	565.0
60°	520.0
62.5°	473.4
65°	425.4
67.5°	375.2
70°	323.5
72.5°	273.3
75°	224.5
77.5°	178.0
80°	134.4
82.5°	93.1
85°	55.4
87.5°	25.1
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	18.18	19.88	18.55	20.20	20.51	18.18	19.88	18.55	20.20	20.51
	3H	20.02	21.56	20.40	21.89	22.25	20.02	21.56	20.40	21.89	22.25
	4H	20.69	22.14	21.09	22.49	22.86	20.69	22.14	21.09	22.49	22.86
	6H	21.18	22.53	21.59	22.89	23.28	21.18	22.53	21.59	22.89	23.28
	8H	21.33	22.62	21.76	23.01	23.41	21.33	22.62	21.76	23.01	23.41
	12H	21.43	22.67	21.86	23.05	23.48	21.43	22.67	21.86	23.05	23.48
4H	2H	18.85	20.30	19.24	20.65	21.02	18.85	20.30	19.24	20.65	21.02
	3H	20.90	22.12	21.30	22.51	22.91	20.90	22.12	21.30	22.51	22.91
	4H	21.69	22.80	22.12	23.21	23.64	21.69	22.80	22.12	23.21	23.64
	6H	22.30	23.27	22.76	23.71	24.17	22.30	23.27	22.76	23.71	24.17
	8H	22.51	23.41	22.96	23.85	24.32	22.51	23.41	22.96	23.85	24.32
	12H	22.65	23.47	23.13	23.94	24.41	22.65	23.47	23.13	23.94	24.41
8H	4H	22.01	22.92	22.47	23.36	23.82	22.01	22.92	22.47	23.36	23.82
	6H	22.74	23.50	23.23	23.98	24.46	22.74	23.50	23.23	23.98	24.46
	8H	23.01	23.69	23.52	24.20	24.68	23.01	23.69	23.52	24.20	24.68
	12H	23.23	23.83	23.73	24.32	24.88	23.23	23.83	23.73	24.32	24.88
12H	4H	22.05	22.86	22.52	23.34	23.81	22.05	22.86	22.52	23.34	23.81
	6H	22.80	23.48	23.30	23.98	24.47	22.80	23.48	23.30	23.98	24.47
	8H	23.13	23.73	23.63	24.22	24.78	23.13	23.73	23.63	24.22	24.78