

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: P866819

Luminaire Tested: PRLX-2001-L-935-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P866819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-L-935-15L-G-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 1  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

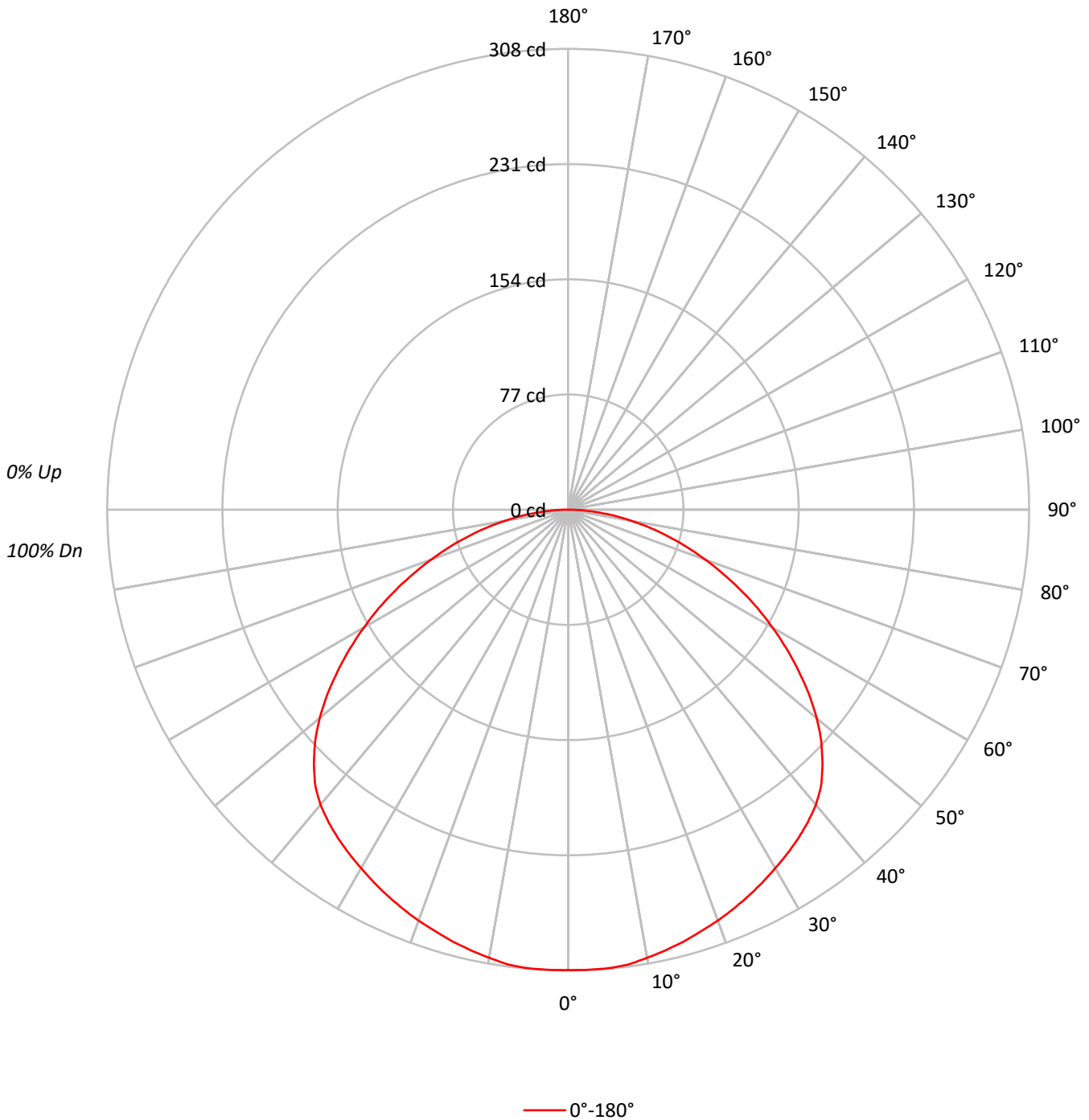
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 987.7 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48  
Luminous Opening: Circular (Dia: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.4  
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: 0.333 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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

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

	0°
0°	1682
5°	1689
10°	1688
15°	1691
20°	1700
25°	1719
30°	1747
35°	1789
40°	1838
45°	1858
50°	1844
55°	1791
60°	1723
65°	1645
70°	1557
75°	1462
80°	1360
85°	1217

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1858 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.3	3.0
10°-20°	84.4	8.5
20°-30°	131.6	13.3
30°-40°	167.9	17.0
40°-50°	184.9	18.7
50°-60°	168.0	17.0
60°-70°	126.0	12.8
70°-80°	73.6	7.5
80°-90°	22.0	2.2
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°	245.3	24.8
0°-40°	413.2	41.8
0°-60°	766.0	77.6
0°-90°	987.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	308	
5°	308	29
15°	299	84
25°	285	132
35°	268	168
45°	240	185
55°	188	168
65°	127	126
75°	69	74
85°	19	22
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	307.7
2.5°	307.8
5°	307.7
7.5°	306.6
10°	304.1
12.5°	301.5
15°	298.7
17.5°	295.4
20°	292.2
22.5°	288.7
25°	284.9
27.5°	280.9
30°	276.7
32.5°	272.5
35°	268.1
37.5°	263.1
40°	257.5
42.5°	250.2
45°	240.3
47.5°	229.4
50°	216.8
52.5°	203.0
55°	187.9
57.5°	173.0
60°	157.6
62.5°	142.7
65°	127.2
67.5°	112.0
70°	97.4
72.5°	83.4
75°	69.2
77.5°	56.3
80°	43.2
82.5°	31.0
85°	19.4
87.5°	9.0
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	14.28	15.96	14.65	16.28	16.59	14.28	15.96	14.65	16.28	16.59
	3H	16.06	17.58	16.44	17.90	18.26	16.06	17.58	16.44	17.90	18.26
	4H	16.74	18.18	17.14	18.52	18.90	16.74	18.18	17.14	18.52	18.90
	6H	17.28	18.61	17.69	18.97	19.36	17.28	18.61	17.69	18.97	19.36
	8H	17.46	18.73	17.88	19.12	19.52	17.46	18.73	17.88	19.12	19.52
	12H	17.59	18.81	18.02	19.19	19.62	17.59	18.81	18.02	19.19	19.62
4H	2H	14.91	16.34	15.31	16.69	17.07	14.91	16.34	15.31	16.69	17.07
	3H	16.92	18.12	17.32	18.52	18.92	16.92	18.12	17.32	18.52	18.92
	4H	17.73	18.83	18.16	19.24	19.67	17.73	18.83	18.16	19.24	19.67
	6H	18.40	19.36	18.86	19.80	20.25	18.40	19.36	18.86	19.80	20.25
	8H	18.64	19.53	19.10	19.98	20.44	18.64	19.53	19.10	19.98	20.44
	12H	18.82	19.62	19.30	20.10	20.57	18.82	19.62	19.30	20.10	20.57
8H	4H	18.06	18.96	18.52	19.40	19.87	18.06	18.96	18.52	19.40	19.87
	6H	18.87	19.61	19.36	20.10	20.57	18.87	19.61	19.36	20.10	20.57
	8H	19.18	19.85	19.69	20.36	20.84	19.18	19.85	19.69	20.36	20.84
	12H	19.44	20.04	19.95	20.53	21.08	19.44	20.04	19.95	20.53	21.08
12H	4H	18.11	18.91	18.59	19.39	19.86	18.11	18.91	18.59	19.39	19.86
	6H	18.93	19.61	19.44	20.11	20.59	18.93	19.61	19.44	20.11	20.59
	8H	19.31	19.91	19.82	20.40	20.95	19.31	19.91	19.82	20.40	20.95