

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: P865669

Luminaire Tested: PRLX-2002-S-935-15L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Pentalux  
Catalog Number: PRLX-2002-S-935-15L-G-U-S-X-X-BRSS-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

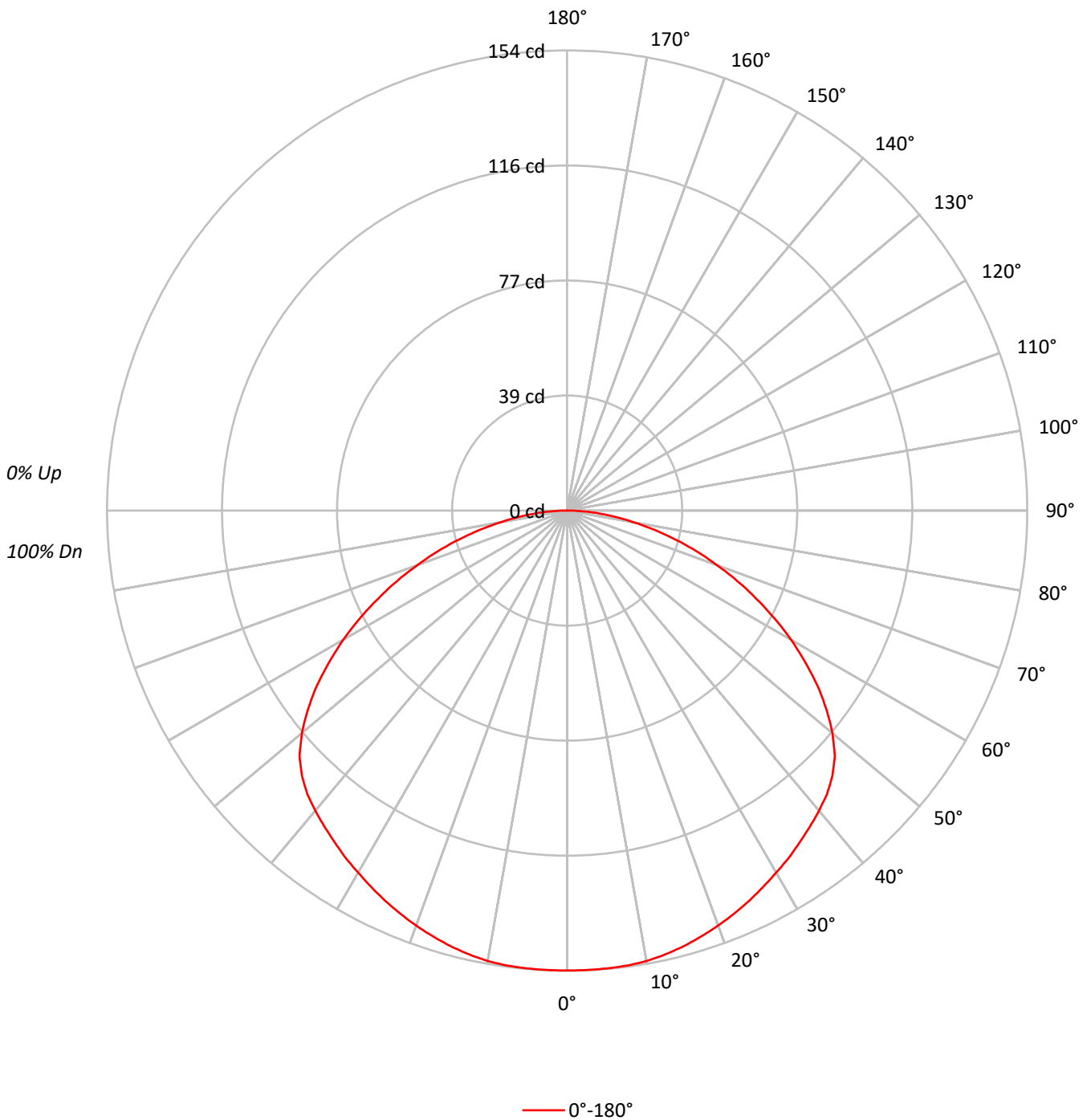
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 517.3 lumens  
Efficiency: N/A  
Efficacy: 33.2 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
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	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	74	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	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	35	29		40	34	29	27
9	55	41	33	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	29	24		34	28	24	22

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

	0°
0°	2891
5°	2900
10°	2920
15°	2935
20°	2954
25°	2987
30°	3034
35°	3109
40°	3215
45°	3334
50°	3387
55°	3350
60°	3253
65°	3107
70°	2927
75°	2722
80°	2456
85°	2198

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 3387 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.7	2.8
10°-20°	42.6	8.2
20°-30°	66.5	12.9
30°-40°	85.1	16.4
40°-50°	96.5	18.7
50°-60°	91.1	17.6
60°-70°	69.2	13.4
70°-80°	39.8	7.7
80°-90°	11.7	2.3
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°	123.8	23.9
0°-40°	208.9	40.4
0°-60°	396.5	76.7
0°-90°	517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	154	
5°	154	15
15°	151	43
25°	144	67
35°	136	85
45°	126	96
55°	102	91
65°	70	69
75°	38	40
85°	10	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	153.9
2.5°	153.9
5°	153.8
7.5°	153.6
10°	153.1
12.5°	152.1
15°	150.9
17.5°	149.4
20°	147.8
22.5°	146.0
25°	144.1
27.5°	142.0
30°	139.9
32.5°	137.9
35°	135.6
37.5°	133.4
40°	131.1
42.5°	128.7
45°	125.5
47.5°	121.5
50°	115.9
52.5°	109.4
55°	102.3
57.5°	94.5
60°	86.6
62.5°	78.3
65°	69.9
67.5°	61.7
70°	53.3
72.5°	45.5
75°	37.5
77.5°	30.0
80°	22.7
82.5°	16.1
85°	10.2
87.5°	5.3
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	16.60	18.29	16.96	18.61	18.92	16.60	18.29	16.96	18.61	18.92
	3H	18.39	19.93	18.77	20.25	20.61	18.39	19.93	18.77	20.25	20.61
	4H	19.06	20.51	19.46	20.86	21.23	19.06	20.51	19.46	20.86	21.23
	6H	19.57	20.91	19.98	21.28	21.67	19.57	20.91	19.98	21.28	21.67
	8H	19.73	21.02	20.15	21.41	21.80	19.73	21.02	20.15	21.41	21.80
	12H	19.85	21.08	20.28	21.46	21.89	19.85	21.08	20.28	21.46	21.89
4H	2H	17.24	18.69	17.63	19.03	19.41	17.24	18.69	17.63	19.03	19.41
	3H	19.25	20.47	19.66	20.87	21.26	19.25	20.47	19.66	20.87	21.26
	4H	20.05	21.16	20.48	21.57	22.01	20.05	21.16	20.48	21.57	22.01
	6H	20.69	21.66	21.14	22.09	22.55	20.69	21.66	21.14	22.09	22.55
	8H	20.90	21.81	21.36	22.25	22.71	20.90	21.81	21.36	22.25	22.71
	12H	21.07	21.89	21.55	22.36	22.83	21.07	21.89	21.55	22.36	22.83
8H	4H	20.38	21.28	20.83	21.73	22.19	20.38	21.28	20.83	21.73	22.19
	6H	21.13	21.89	21.62	22.38	22.85	21.13	21.89	21.62	22.38	22.85
	8H	21.42	22.10	21.93	22.61	23.09	21.42	22.10	21.93	22.61	23.09
	12H	21.67	22.27	22.17	22.76	23.32	21.67	22.27	22.17	22.76	23.32
12H	4H	20.42	21.23	20.89	21.71	22.18	20.42	21.23	20.89	21.71	22.18
	6H	21.19	21.88	21.70	22.38	22.86	21.19	21.88	21.70	22.38	22.86
	8H	21.55	22.15	22.05	22.64	23.20	21.55	22.15	22.05	22.64	23.20