

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: P865677

Luminaire Tested: PRLX-2002-S-935-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865677  
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-935-20L-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 4  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

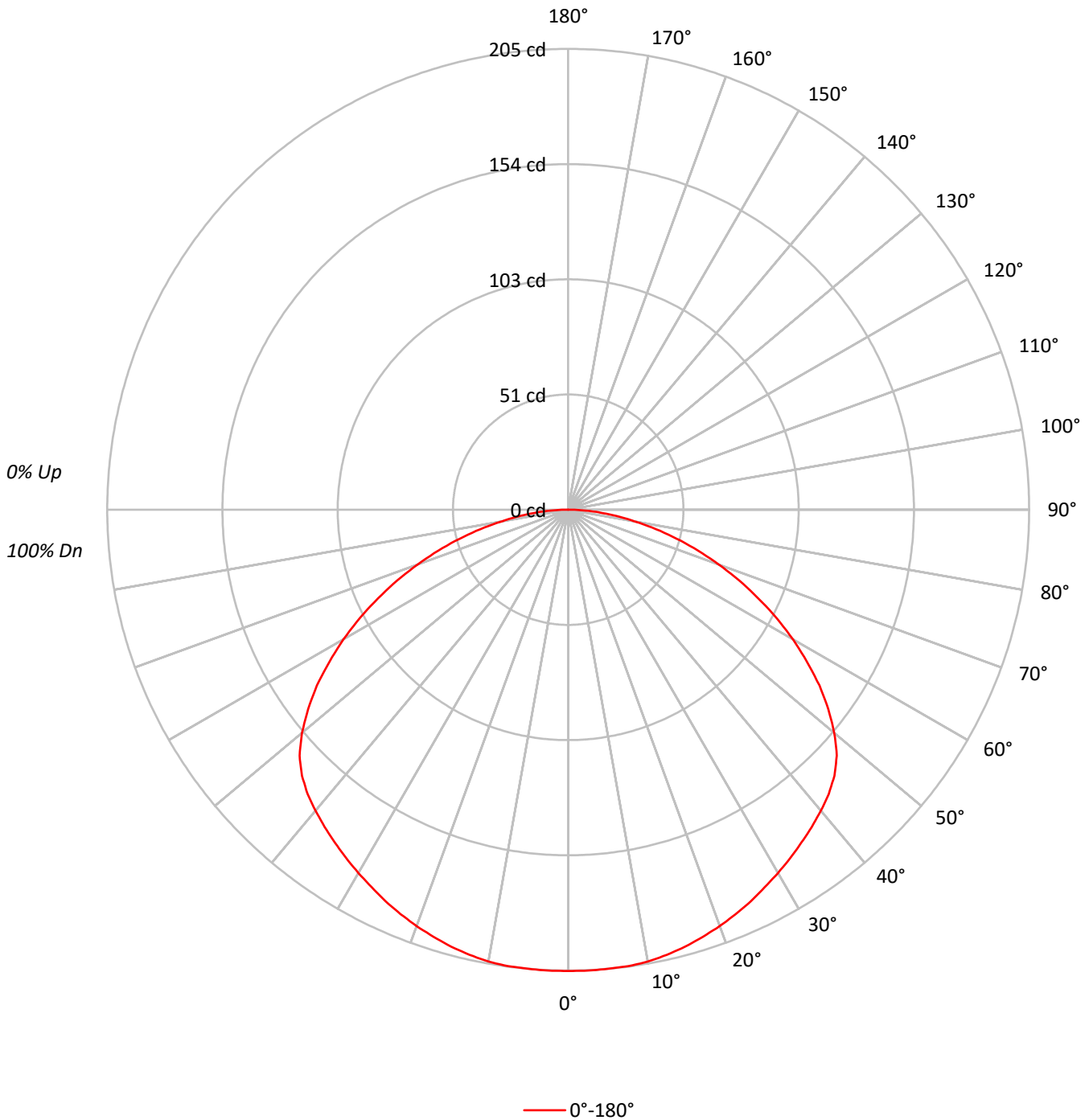
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 689.6 lumens  
Efficiency: N/A  
Efficacy: 31.6 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): 21.8  
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°	3855
5°	3865
10°	3893
15°	3913
20°	3940
25°	3984
30°	4047
35°	4146
40°	4286
45°	4447
50°	4515
55°	4467
60°	4335
65°	4142
70°	3905
75°	3622
80°	3267
85°	2931

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 4515 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.5	2.8
10°-20°	56.9	8.2
20°-30°	88.7	12.9
30°-40°	113.4	16.4
40°-50°	128.6	18.7
50°-60°	121.5	17.6
60°-70°	92.3	13.4
70°-80°	53.0	7.7
80°-90°	15.6	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°	165.1	23.9
0°-40°	278.6	40.4
0°-60°	528.7	76.7
0°-90°	689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	689.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	205	
5°	205	20
15°	201	57
25°	192	89
35°	181	113
45°	167	129
55°	136	121
65°	93	92
75°	50	53
85°	14	16
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	205.2
2.5°	205.2
5°	205.0
7.5°	204.8
10°	204.1
12.5°	202.8
15°	201.2
17.5°	199.2
20°	197.1
22.5°	194.7
25°	192.2
27.5°	189.3
30°	186.6
32.5°	183.8
35°	180.8
37.5°	177.9
40°	174.8
42.5°	171.5
45°	167.4
47.5°	162.0
50°	154.5
52.5°	145.8
55°	136.4
57.5°	125.9
60°	115.4
62.5°	104.4
65°	93.2
67.5°	82.3
70°	71.1
72.5°	60.6
75°	49.9
77.5°	40.0
80°	30.2
82.5°	21.5
85°	13.6
87.5°	7.1
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	17.59	19.29	17.96	19.60	19.92	17.59	19.29	17.96	19.60	19.92
	3H	19.39	20.92	19.76	21.25	21.61	19.39	20.92	19.76	21.25	21.61
	4H	20.06	21.51	20.46	21.86	22.23	20.06	21.51	20.46	21.86	22.23
	6H	20.56	21.91	20.97	22.27	22.66	20.56	21.91	20.97	22.27	22.66
	8H	20.73	22.01	21.15	22.40	22.80	20.73	22.01	21.15	22.40	22.80
	12H	20.85	22.08	21.27	22.46	22.89	20.85	22.08	21.27	22.46	22.89
4H	2H	18.23	19.68	18.63	20.03	20.40	18.23	19.68	18.63	20.03	20.40
	3H	20.25	21.47	20.66	21.86	22.26	20.25	21.47	20.66	21.86	22.26
	4H	21.05	22.16	21.48	22.57	23.00	21.05	22.16	21.48	22.57	23.00
	6H	21.68	22.65	22.13	23.09	23.54	21.68	22.65	22.13	23.09	23.54
	8H	21.90	22.81	22.36	23.25	23.71	21.90	22.81	22.36	23.25	23.71
	12H	22.07	22.88	22.54	23.36	23.83	22.07	22.88	22.54	23.36	23.83
8H	4H	21.37	22.28	21.83	22.72	23.19	21.37	22.28	21.83	22.72	23.19
	6H	22.13	22.89	22.62	23.37	23.84	22.13	22.89	22.62	23.37	23.84
	8H	22.42	23.10	22.93	23.60	24.09	22.42	23.10	22.93	23.60	24.09
	12H	22.67	23.27	23.17	23.76	24.32	22.67	23.27	23.17	23.76	24.32
12H	4H	21.41	22.23	21.89	22.70	23.17	21.41	22.23	21.89	22.70	23.17
	6H	22.19	22.87	22.70	23.38	23.86	22.19	22.87	22.70	23.38	23.86
	8H	22.54	23.14	23.05	23.63	24.19	22.54	23.14	23.05	23.63	24.19