

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: P865517

Luminaire Tested: PRLX-2001-S-935-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

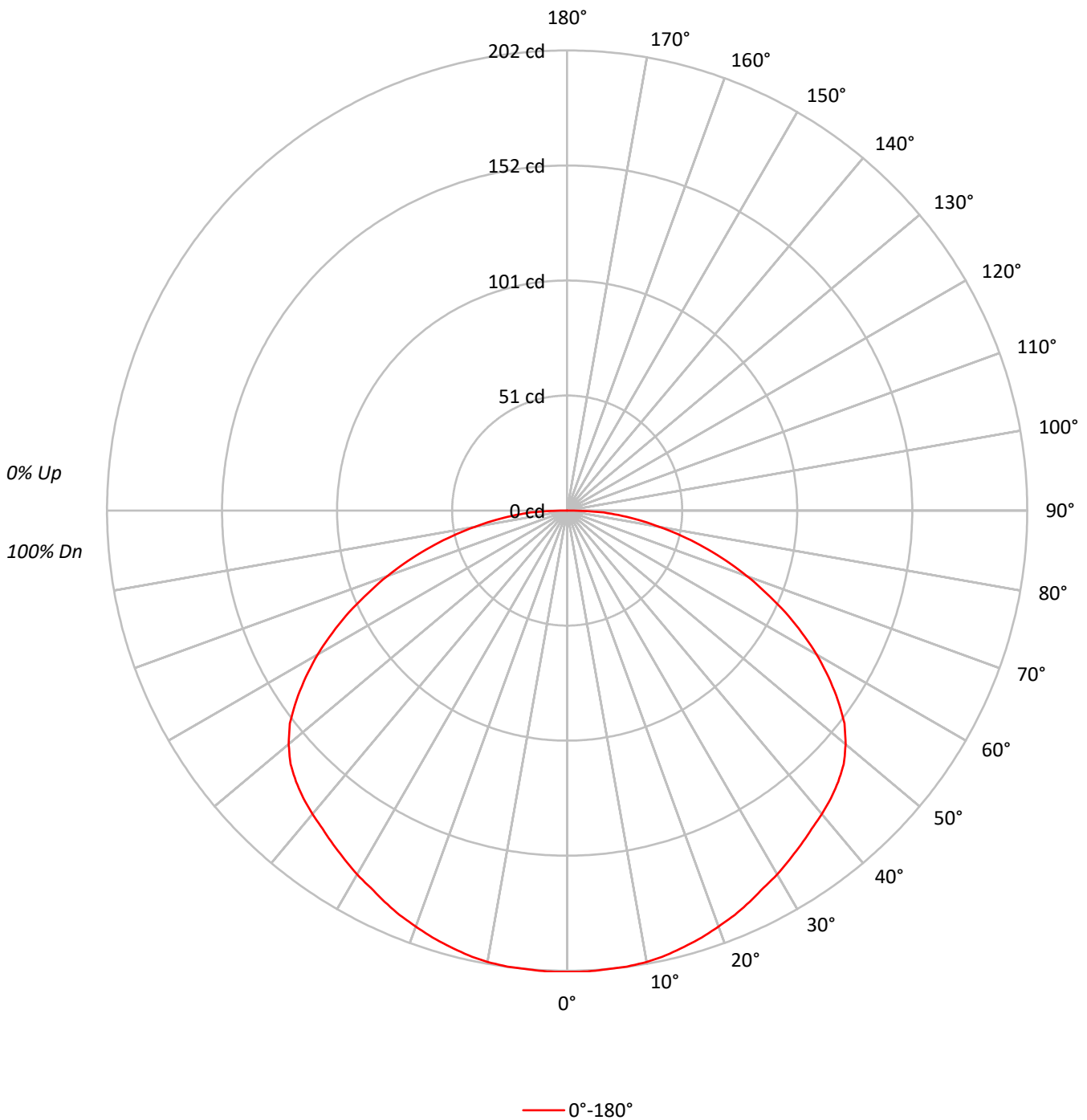
Lumens per Lamp: N/A
Luminaire Lumens: 728.7 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (A_{in}): 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	107	102	97	93	105	100	95	91	95	92	89		91	89	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	72	64	59		69	63	58		66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36		48	41	36		47	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32		44	37	31		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3303
5°	3309
10°	3332
15°	3348
20°	3372
25°	3410
30°	3473
35°	3564
40°	3703
45°	3882
50°	4050
55°	4126
60°	4126
65°	4079
70°	4006
75°	3913
80°	3879
85°	4229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	2.6
10°-20°	56.1	7.7
20°-30°	87.5	12.0
30°-40°	112.3	15.4
40°-50°	129.8	17.8
50°-60°	129.3	17.7
60°-70°	104.4	14.3
70°-80°	65.8	9.0
80°-90°	24.3	3.3
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°	162.9	22.4
0°-40°	275.2	37.8
0°-60°	534.3	73.3
0°-90°	728.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	728.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	202	
5°	202	19
15°	198	56
25°	190	88
35°	179	112
45°	168	130
55°	145	129
65°	106	104
75°	62	66
85°	23	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	202.5
2.5°	202.5
5°	202.1
7.5°	201.9
10°	201.2
12.5°	200.0
15°	198.3
17.5°	196.5
20°	194.3
22.5°	192.2
25°	189.5
27.5°	186.7
30°	184.4
32.5°	181.7
35°	179.0
37.5°	176.2
40°	173.9
42.5°	171.4
45°	168.3
47.5°	164.7
50°	159.6
52.5°	153.4
55°	145.1
57.5°	136.1
60°	126.5
62.5°	116.2
65°	105.7
67.5°	94.5
70°	84.0
72.5°	73.1
75°	62.1
77.5°	51.6
80°	41.3
82.5°	31.5
85°	22.6
87.5°	14.5
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	17.41	19.14	17.77	19.46	19.77	17.41	19.14	17.77	19.46	19.77
	3H	19.42	21.00	19.79	21.32	21.68	19.42	21.00	19.79	21.32	21.68
	4H	20.23	21.72	20.63	22.07	22.44	20.23	21.72	20.63	22.07	22.44
	6H	20.90	22.29	21.31	22.65	23.04	20.90	22.29	21.31	22.65	23.04
	8H	21.16	22.49	21.58	22.88	23.28	21.16	22.49	21.58	22.88	23.28
	12H	21.39	22.66	21.82	23.05	23.47	21.39	22.66	21.82	23.05	23.47
4H	2H	18.11	19.61	18.51	19.95	20.32	18.11	19.61	18.51	19.95	20.32
	3H	20.35	21.62	20.76	22.01	22.41	20.35	21.62	20.76	22.01	22.41
	4H	21.31	22.46	21.74	22.87	23.30	21.31	22.46	21.74	22.87	23.30
	6H	22.13	23.14	22.58	23.58	24.03	22.13	23.14	22.58	23.58	24.03
	8H	22.46	23.41	22.91	23.85	24.31	22.46	23.41	22.91	23.85	24.31
	12H	22.75	23.61	23.23	24.09	24.55	22.75	23.61	23.23	24.09	24.55
8H	4H	21.70	22.65	22.16	23.09	23.56	21.70	22.65	22.16	23.09	23.56
	6H	22.68	23.48	23.17	23.96	24.44	22.68	23.48	23.17	23.96	24.44
	8H	23.11	23.83	23.62	24.33	24.82	23.11	23.83	23.62	24.33	24.82
	12H	23.53	24.16	24.03	24.65	25.21	23.53	24.16	24.03	24.65	25.21
12H	4H	21.77	22.63	22.24	23.10	23.57	21.77	22.63	22.24	23.10	23.57
	6H	22.78	23.50	23.29	24.00	24.49	22.78	23.50	23.29	24.00	24.49
	8H	23.29	23.93	23.79	24.42	24.97	23.29	23.93	23.79	24.42	24.97