

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: P865518

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

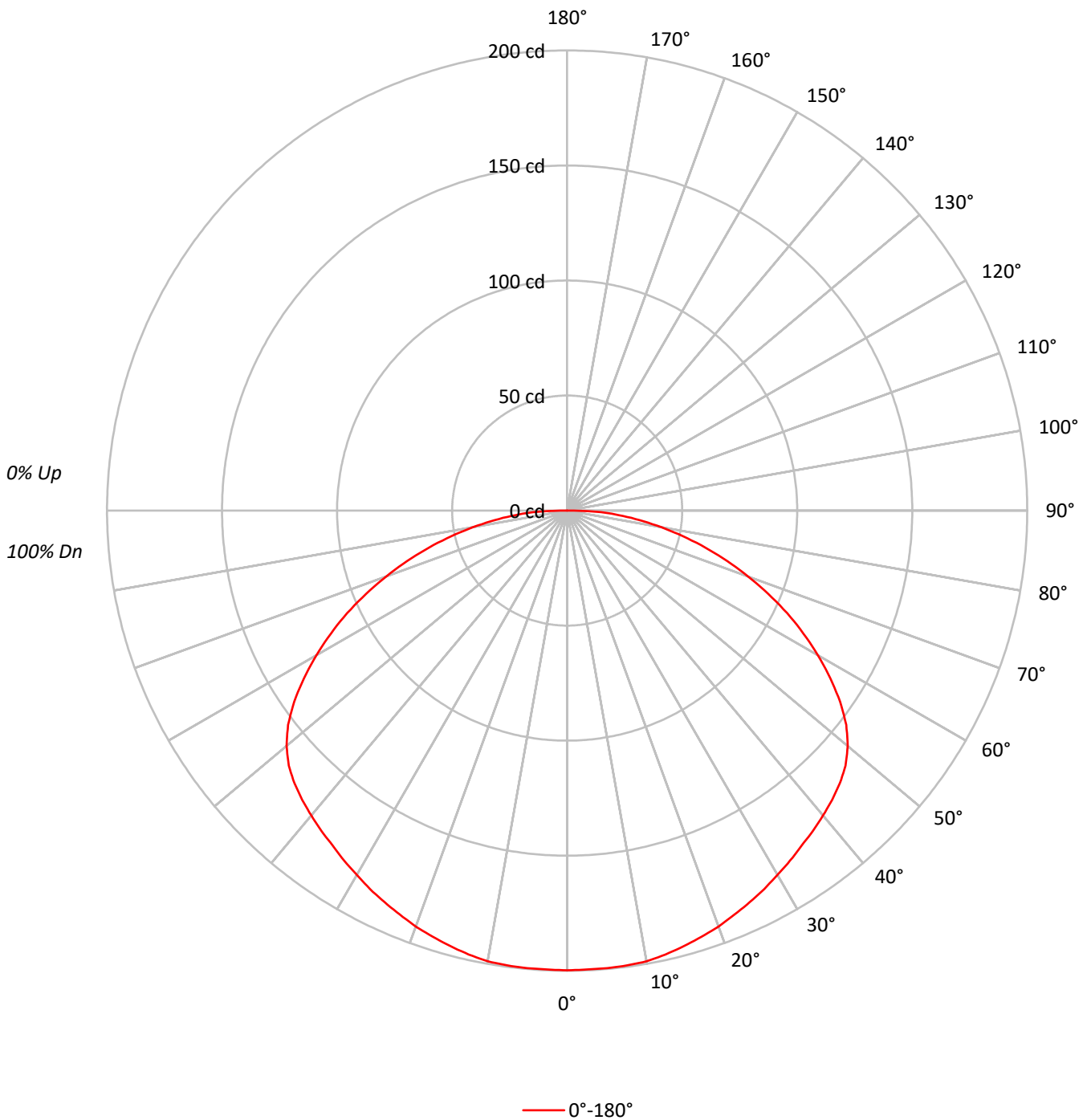
Lumens per Lamp: N/A
Luminaire Lumens: 725.2 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	88	91	88	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	71	64	59	69	63	58	66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49	60	54	48	58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	58	43	34	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	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3259
5°	3268
10°	3294
15°	3310
20°	3339
25°	3380
30°	3443
35°	3538
40°	3683
45°	3866
50°	4040
55°	4118
60°	4107
65°	4072
70°	3987
75°	3913
80°	3889
85°	4229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	2.6
10°-20°	55.4	7.6
20°-30°	86.8	12.0
30°-40°	111.6	15.4
40°-50°	129.2	17.8
50°-60°	128.9	17.8
60°-70°	104.1	14.4
70°-80°	65.7	9.1
80°-90°	24.4	3.4
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°	161.2	22.2
0°-40°	272.8	37.6
0°-60°	531.0	73.2
0°-90°	725.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	200	
5°	200	19
15°	196	55
25°	188	87
35°	178	112
45°	168	129
55°	145	129
65°	106	104
75°	62	66
85°	23	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	199.8
2.5°	199.6
5°	199.6
7.5°	199.4
10°	198.9
12.5°	197.6
15°	196.0
17.5°	194.2
20°	192.4
22.5°	190.0
25°	187.8
27.5°	185.5
30°	182.8
32.5°	180.4
35°	177.7
37.5°	175.5
40°	173.0
42.5°	170.5
45°	167.6
47.5°	164.1
50°	159.2
52.5°	152.9
55°	144.8
57.5°	135.7
60°	125.9
62.5°	115.8
65°	105.5
67.5°	94.6
70°	83.6
72.5°	72.9
75°	62.1
77.5°	51.6
80°	41.4
82.5°	31.7
85°	22.6
87.5°	14.7
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	17.40	19.14	17.77	19.45	19.76	17.40	19.14	17.77	19.45	19.76
	3H	19.42	21.00	19.79	21.32	21.68	19.42	21.00	19.79	21.32	21.68
	4H	20.23	21.73	20.63	22.07	22.44	20.23	21.73	20.63	22.07	22.44
	6H	20.91	22.30	21.32	22.66	23.05	20.91	22.30	21.32	22.66	23.05
	8H	21.17	22.50	21.59	22.89	23.29	21.17	22.50	21.59	22.89	23.29
	12H	21.40	22.68	21.83	23.06	23.49	21.40	22.68	21.83	23.06	23.49
4H	2H	18.11	19.60	18.50	19.95	20.32	18.11	19.60	18.50	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	23.31	21.31	22.46	21.74	22.87	23.31
	6H	22.14	23.15	22.59	23.59	24.04	22.14	23.15	22.59	23.59	24.04
	8H	22.47	23.42	22.92	23.86	24.32	22.47	23.42	22.92	23.86	24.32
	12H	22.77	23.63	23.24	24.10	24.57	22.77	23.63	23.24	24.10	24.57
8H	4H	21.71	22.66	22.16	23.10	23.56	21.71	22.66	22.16	23.10	23.56
	6H	22.69	23.49	23.18	23.97	24.45	22.69	23.49	23.18	23.97	24.45
	8H	23.13	23.85	23.63	24.35	24.83	23.13	23.85	23.63	24.35	24.83
	12H	23.54	24.18	24.05	24.67	25.23	23.54	24.18	24.05	24.67	25.23
12H	4H	21.77	22.63	22.25	23.10	23.57	21.77	22.63	22.25	23.10	23.57
	6H	22.79	23.51	23.29	24.01	24.50	22.79	23.51	23.29	24.01	24.50
	8H	23.31	23.94	23.81	24.43	24.99	23.31	23.94	23.81	24.43	24.99