

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: P865839

Luminaire Tested: PRLX-2004-S-935-20L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-935-20L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

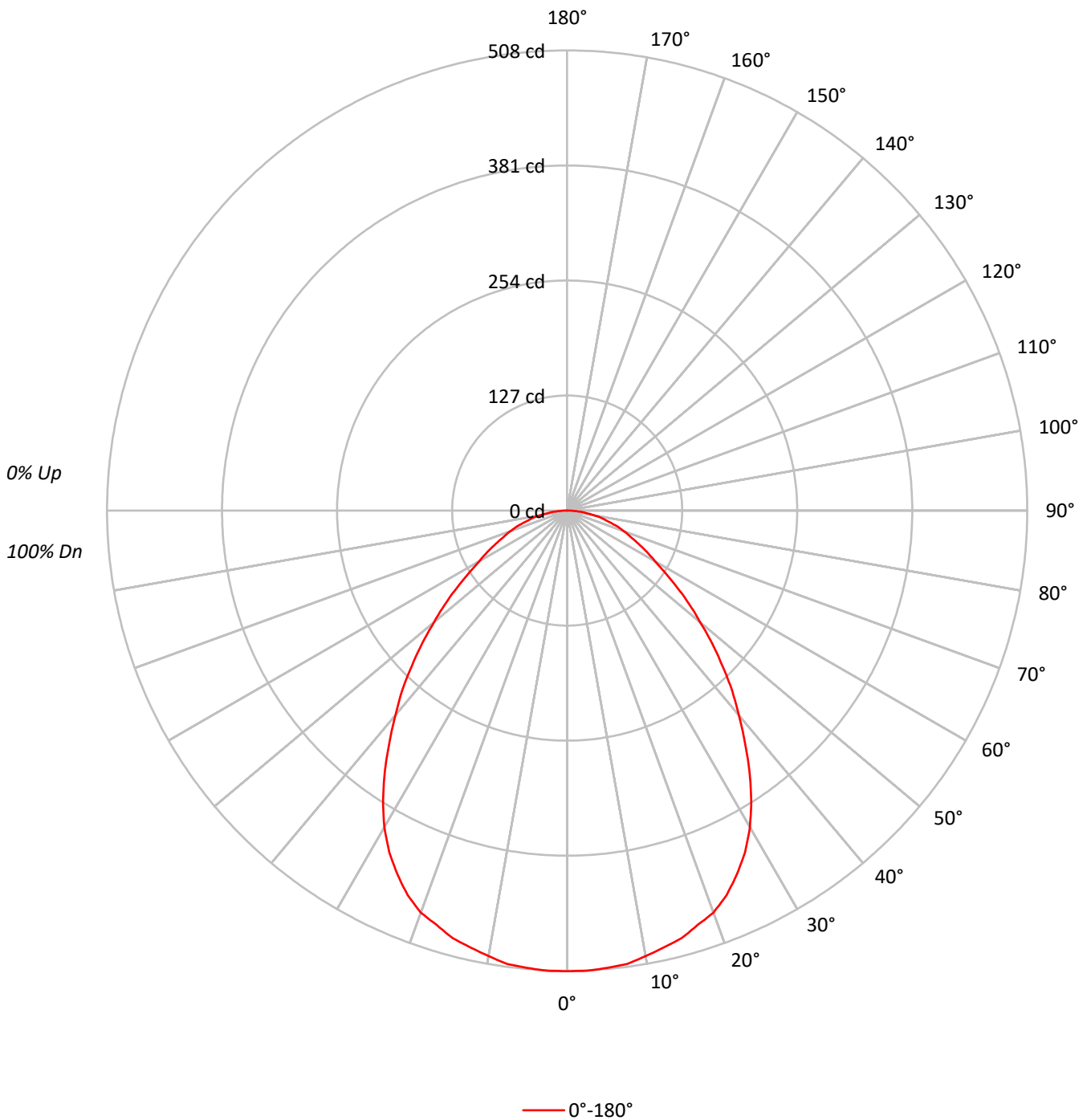
Lumens per Lamp: N/A
Luminaire Lumens: 1082.8 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8294
5°	8296
10°	8271
15°	8250
20°	8198
25°	7978
30°	7599
35°	6989
40°	6281
45°	5594
50°	4867
55°	4220
60°	3660
65°	3354
70°	3195
75°	2962
80°	2893
85°	2713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	4.4
10°-20°	137.6	12.7
20°-30°	203.4	18.8
30°-40°	218.6	20.2
40°-50°	187.2	17.3
50°-60°	133.7	12.3
60°-70°	87.1	8.0
70°-80°	51.1	4.7
80°-90°	16.0	1.5
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°	389.2	35.9
0°-40°	607.9	56.1
0°-60°	928.7	85.8
0°-90°	1082.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	508	
5°	507	48
15°	489	138
25°	443	203
35°	351	219
45°	242	187
55°	148	134
65°	87	87
75°	47	51
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	508.5
2.5°	508.5
5°	506.7
7.5°	504.9
10°	499.4
12.5°	494.0
15°	488.6
17.5°	479.5
20°	472.3
22.5°	459.6
25°	443.3
27.5°	425.2
30°	403.5
32.5°	378.2
35°	351.0
37.5°	322.1
40°	295.0
42.5°	269.6
45°	242.5
47.5°	217.1
50°	191.8
52.5°	170.1
55°	148.4
57.5°	128.5
60°	112.2
62.5°	99.5
65°	86.9
67.5°	76.0
70°	67.0
72.5°	57.9
75°	47.0
77.5°	39.8
80°	30.8
82.5°	21.7
85°	14.5
87.5°	7.2
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	15.91	17.41	16.28	17.72	18.03	15.91	17.41	16.28	17.72	18.03
	3H	17.45	18.79	17.82	19.11	19.48	17.45	18.79	17.82	19.11	19.48
	4H	18.06	19.32	18.46	19.67	20.05	18.06	19.32	18.46	19.67	20.05
	6H	18.58	19.74	18.99	20.11	20.50	18.58	19.74	18.99	20.11	20.50
	8H	18.75	19.86	19.18	20.25	20.65	18.75	19.86	19.18	20.25	20.65
	12H	18.88	19.94	19.31	20.32	20.75	18.88	19.94	19.31	20.32	20.75
4H	2H	16.41	17.67	16.81	18.02	18.40	16.41	17.67	16.81	18.02	18.40
	3H	18.20	19.25	18.61	19.65	20.05	18.20	19.25	18.61	19.65	20.05
	4H	18.95	19.89	19.38	20.31	20.75	18.95	19.89	19.38	20.31	20.75
	6H	19.61	20.43	20.07	20.88	21.34	19.61	20.43	20.07	20.88	21.34
	8H	19.84	20.60	20.30	21.05	21.52	19.84	20.60	20.30	21.05	21.52
	12H	20.02	20.70	20.50	21.18	21.65	20.02	20.70	20.50	21.18	21.65
8H	4H	19.24	20.01	19.71	20.45	20.92	19.24	20.01	19.71	20.45	20.92
	6H	20.04	20.67	20.54	21.17	21.64	20.04	20.67	20.54	21.17	21.64
	8H	20.34	20.91	20.86	21.42	21.91	20.34	20.91	20.86	21.42	21.91
	12H	20.61	21.11	21.12	21.61	22.17	20.61	21.11	21.12	21.61	22.17
12H	4H	19.27	19.96	19.76	20.44	20.91	19.27	19.96	19.76	20.44	20.91
	6H	20.10	20.67	20.61	21.18	21.67	20.10	20.67	20.61	21.18	21.67
	8H	20.46	20.97	20.97	21.46	22.02	20.46	20.97	20.97	21.46	22.02