

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: P866806

Luminaire Tested: PRLX-2001-L-935-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

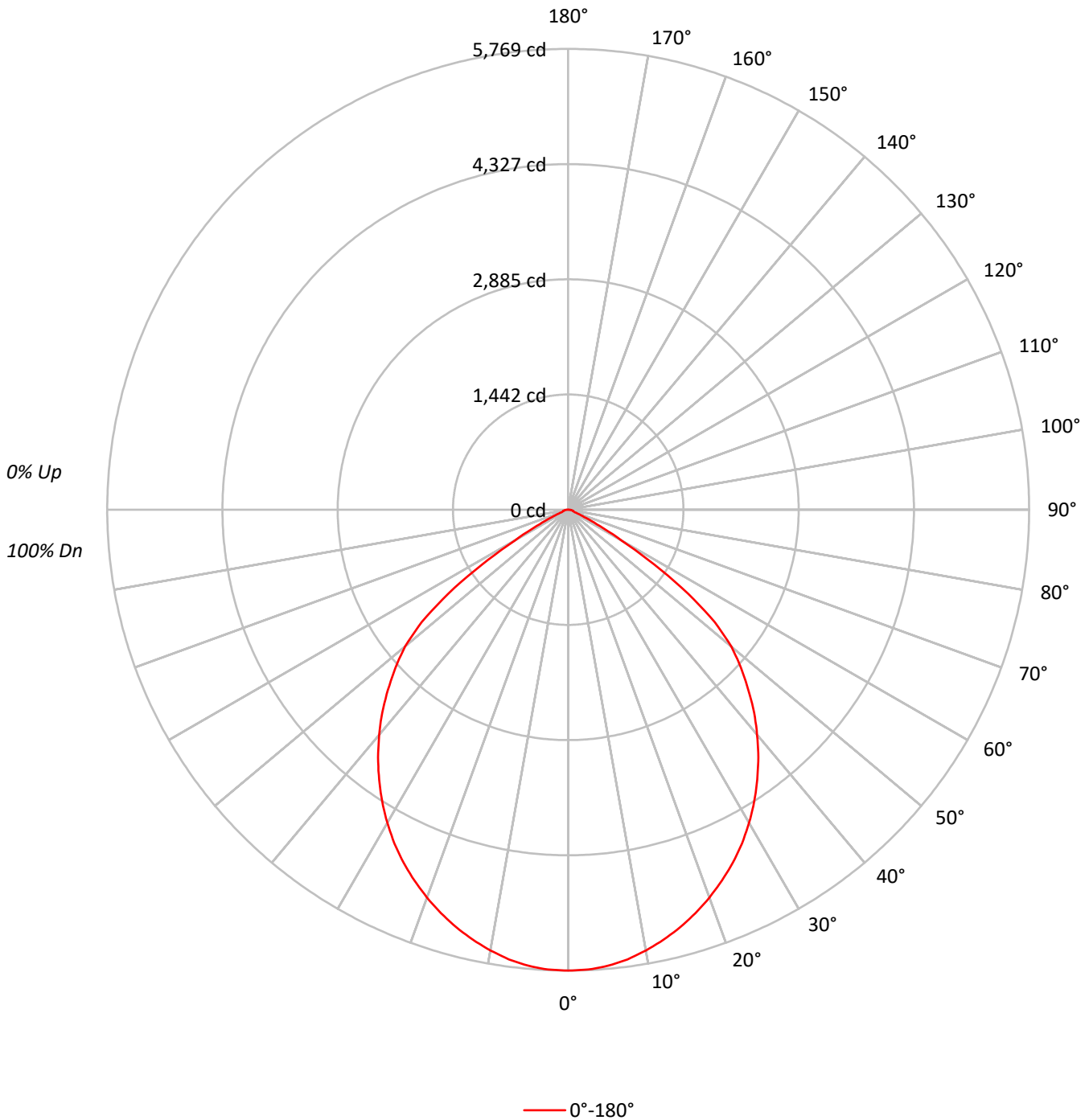
Lumens per Lamp: N/A
Luminaire Lumens: 11331.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69					69			
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61					61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54					54			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49					49			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31540
5°	31451
10°	31107
15°	30637
20°	30064
25°	29410
30°	28582
35°	27530
40°	26249
45°	24651
50°	22649
55°	17489
60°	8455
65°	3190
70°	1256
75°	1384
80°	1574
85°	1794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.0	4.8
10°-20°	1525.1	13.5
20°-30°	2243.1	19.8
30°-40°	2576.2	22.7
40°-50°	2455.8	21.7
50°-60°	1585.4	14.0
60°-70°	304.6	2.7
70°-80°	68.6	0.6
80°-90°	29.5	0.3
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
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0°-30°	4311.3	38.0
0°-40°	6887.5	60.8
0°-60°	10928.7	96.4
0°-90°	11331.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11331.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5769	
5°	5731	543
15°	5413	1525
25°	4876	2243
35°	4125	2576
45°	3188	2456
55°	1835	1585
65°	247	305
75°	66	69
85°	29	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5769.4
2.5°	5762.2
5°	5731.2
7.5°	5678.8
10°	5603.7
12.5°	5514.4
15°	5413.1
17.5°	5296.3
20°	5167.6
22.5°	5025.8
25°	4875.7
27.5°	4710.1
30°	4527.8
32.5°	4332.4
35°	4125.1
37.5°	3909.4
40°	3678.2
42.5°	3445.9
45°	3188.5
47.5°	2934.7
50°	2663.1
52.5°	2311.6
55°	1834.9
57.5°	1278.5
60°	773.3
62.5°	443.2
65°	246.6
67.5°	128.7
70°	78.6
72.5°	71.5
75°	65.5
77.5°	58.4
80°	50.0
82.5°	40.5
85°	28.6
87.5°	14.3
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	19.89	21.30	20.26	21.61	21.92	19.89	21.30	20.26	21.61	21.92
	3H	19.82	21.05	20.20	21.38	21.75	19.82	21.05	20.20	21.38	21.75
	4H	19.77	20.92	20.18	21.27	21.65	19.77	20.92	20.18	21.27	21.65
	6H	19.73	20.78	20.14	21.15	21.54	19.73	20.78	20.14	21.15	21.54
	8H	19.70	20.70	20.13	21.09	21.50	19.70	20.70	20.13	21.09	21.50
	12H	19.68	20.63	20.11	21.02	21.45	19.68	20.63	20.11	21.02	21.45
4H	2H	19.78	20.92	20.18	21.27	21.65	19.78	20.92	20.18	21.27	21.65
	3H	19.72	20.64	20.13	21.04	21.45	19.72	20.64	20.13	21.04	21.45
	4H	19.67	20.49	20.10	20.91	21.35	19.67	20.49	20.10	20.91	21.35
	6H	19.64	20.35	20.11	20.80	21.26	19.64	20.35	20.11	20.80	21.26
	8H	19.62	20.28	20.09	20.73	21.20	19.62	20.28	20.09	20.73	21.20
	12H	19.60	20.19	20.09	20.67	21.14	19.60	20.19	20.09	20.67	21.14
8H	4H	19.56	20.22	20.03	20.67	21.14	19.56	20.22	20.03	20.67	21.14
	6H	19.53	20.07	20.03	20.57	21.05	19.53	20.07	20.03	20.57	21.05
	8H	19.51	20.00	20.03	20.52	21.01	19.51	20.00	20.03	20.52	21.01
	12H	19.51	19.95	20.02	20.45	21.02	19.51	19.95	20.02	20.45	21.02
12H	4H	19.52	20.11	20.00	20.59	21.06	19.52	20.11	20.00	20.59	21.06
	6H	19.47	19.97	19.99	20.48	20.98	19.47	19.97	19.99	20.48	20.98
	8H	19.48	19.92	19.99	20.42	20.99	19.48	19.92	19.99	20.42	20.99