

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: P866740

Luminaire Tested: PRLX-2001-L-930-133L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-133L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

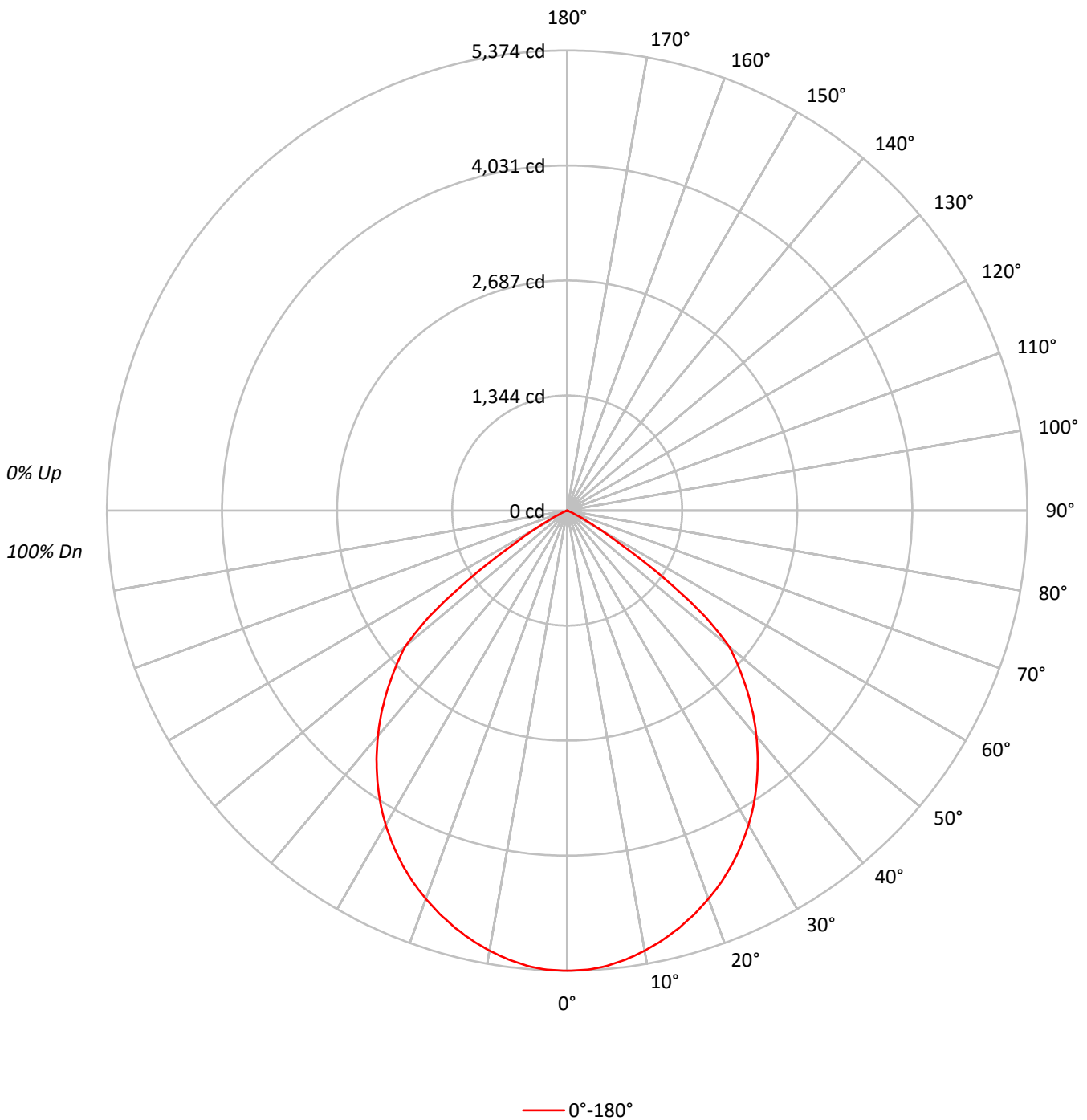
Lumens per Lamp: N/A
Luminaire Lumens: 10126.6 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29378
5°	29294
10°	28973
15°	28561
20°	28070
25°	27504
30°	26753
35°	25790
40°	24549
45°	22967
50°	21018
55°	13332
60°	4627
65°	1163
70°	203
75°	220
80°	255
85°	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22967 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	5.0
10°-20°	1422.2	14.0
20°-30°	2097.5	20.7
30°-40°	2411.8	23.8
40°-50°	2286.5	22.6
50°-60°	1254.4	12.4
60°-70°	132.7	1.3
70°-80°	11.0	0.1
80°-90°	4.9	0.0
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°	4025.4	39.8
0°-40°	6437.2	63.6
0°-60°	9978.1	98.5
0°-90°	10126.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10126.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5374	
5°	5338	506
15°	5046	1422
25°	4560	2097
35°	3864	2412
45°	2971	2287
55°	1399	1254
65°	90	133
75°	10	11
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5373.9
2.5°	5368.1
5°	5338.1
7.5°	5286.2
10°	5219.3
12.5°	5139.8
15°	5046.4
17.5°	4941.4
20°	4825.0
22.5°	4698.1
25°	4559.7
27.5°	4405.2
30°	4238.0
32.5°	4058.1
35°	3864.3
37.5°	3657.9
40°	3440.0
42.5°	3211.6
45°	2970.6
47.5°	2725.0
50°	2471.3
52.5°	2030.8
55°	1398.8
57.5°	800.3
60°	423.2
62.5°	220.3
65°	89.9
67.5°	17.3
70°	12.7
72.5°	11.5
75°	10.4
77.5°	9.2
80°	8.1
82.5°	6.9
85°	4.6
87.5°	2.3
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	17.04	18.40	17.41	18.71	19.03	17.04	18.40	17.41	18.71	19.03
	3H	16.92	18.11	17.30	18.44	18.80	16.92	18.11	17.30	18.44	18.80
	4H	16.85	17.95	17.25	18.30	18.69	16.85	17.95	17.25	18.30	18.69
	6H	16.77	17.79	17.19	18.16	18.55	16.77	17.79	17.19	18.16	18.55
	8H	16.73	17.69	17.16	18.08	18.49	16.73	17.69	17.16	18.08	18.49
	12H	16.69	17.61	17.12	17.99	18.42	16.69	17.61	17.12	17.99	18.42
4H	2H	16.87	17.98	17.28	18.33	18.71	16.87	17.98	17.28	18.33	18.71
	3H	16.75	17.64	17.16	18.04	18.44	16.75	17.64	17.16	18.04	18.44
	4H	16.67	17.45	17.10	17.87	18.31	16.67	17.45	17.10	17.87	18.31
	6H	16.59	17.26	17.05	17.71	18.18	16.59	17.26	17.05	17.71	18.18
	8H	16.53	17.16	17.00	17.61	18.08	16.53	17.16	17.00	17.61	18.08
	12H	16.48	17.04	16.97	17.53	18.00	16.48	17.04	16.97	17.53	18.00
8H	4H	16.53	17.16	17.00	17.61	18.08	16.53	17.16	17.00	17.61	18.08
	6H	16.42	16.94	16.93	17.44	17.92	16.42	16.94	16.93	17.44	17.92
	8H	16.36	16.83	16.88	17.35	17.84	16.36	16.83	16.88	17.35	17.84
	12H	16.31	16.73	16.82	17.23	17.80	16.31	16.73	16.82	17.23	17.80
12H	4H	16.48	17.04	16.96	17.52	18.00	16.48	17.04	16.96	17.52	18.00
	6H	16.36	16.83	16.88	17.34	17.84	16.36	16.83	16.88	17.34	17.84
	8H	16.31	16.73	16.82	17.23	17.80	16.31	16.73	16.82	17.23	17.80