

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: P866852

Luminaire Tested: PRLX-2001-L-940-100L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866852
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-940-100L-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 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

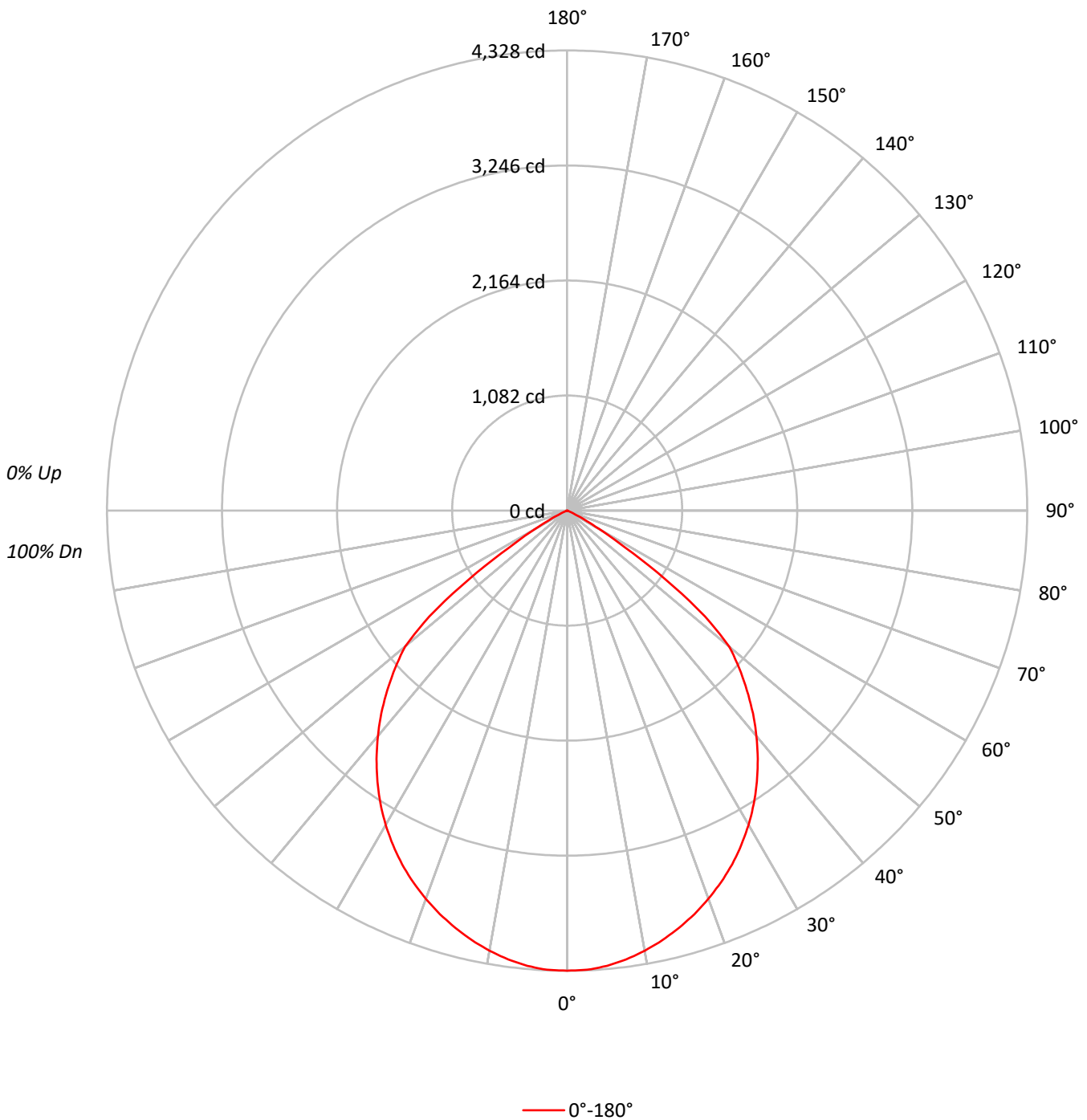
Lumens per Lamp: N/A
Luminaire Lumens: 8155.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	23659
5°	23591
10°	23333
15°	23001
20°	22606
25°	22150
30°	21545
35°	20770
40°	19770
45°	18496
50°	16926
55°	10737
60°	3726
65°	937
70°	163
75°	177
80°	205
85°	232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	5.0
10°-20°	1145.4	14.0
20°-30°	1689.1	20.7
30°-40°	1942.3	23.8
40°-50°	1841.4	22.6
50°-60°	1010.1	12.4
60°-70°	106.9	1.3
70°-80°	8.8	0.1
80°-90°	3.9	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°	3241.8	39.8
0°-40°	5184.1	63.6
0°-60°	8035.6	98.5
0°-90°	8155.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8155.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4328	
5°	4299	407
15°	4064	1145
25°	3672	1689
35°	3112	1942
45°	2392	1841
55°	1126	1010
65°	72	107
75°	8	9
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4327.7
2.5°	4323.1
5°	4298.9
7.5°	4257.2
10°	4203.3
12.5°	4139.2
15°	4064.0
17.5°	3979.5
20°	3885.7
22.5°	3783.5
25°	3672.1
27.5°	3547.6
30°	3413.0
32.5°	3268.1
35°	3112.1
37.5°	2945.8
40°	2770.3
42.5°	2586.4
45°	2392.3
47.5°	2194.5
50°	1990.2
52.5°	1635.4
55°	1126.5
57.5°	644.5
60°	340.8
62.5°	177.4
65°	72.4
67.5°	13.9
70°	10.2
72.5°	9.3
75°	8.4
77.5°	7.4
80°	6.5
82.5°	5.6
85°	3.7
87.5°	1.9
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	16.29	17.65	16.66	17.96	18.28	16.29	17.65	16.66	17.96	18.28
	3H	16.17	17.36	16.55	17.69	18.05	16.17	17.36	16.55	17.69	18.05
	4H	16.10	17.20	16.50	17.55	17.94	16.10	17.20	16.50	17.55	17.94
	6H	16.02	17.03	16.44	17.40	17.80	16.02	17.03	16.44	17.40	17.80
	8H	15.98	16.94	16.41	17.33	17.73	15.98	16.94	16.41	17.33	17.73
	12H	15.94	16.85	16.37	17.24	17.67	15.94	16.85	16.37	17.24	17.67
4H	2H	16.12	17.23	16.52	17.58	17.96	16.12	17.23	16.52	17.58	17.96
	3H	16.00	16.88	16.41	17.29	17.69	16.00	16.88	16.41	17.29	17.69
	4H	15.91	16.70	16.35	17.12	17.56	15.91	16.70	16.35	17.12	17.56
	6H	15.84	16.51	16.30	16.96	17.43	15.84	16.51	16.30	16.96	17.43
	8H	15.78	16.41	16.25	16.86	17.33	15.78	16.41	16.25	16.86	17.33
	12H	15.73	16.29	16.22	16.77	17.25	15.73	16.29	16.22	16.77	17.25
8H	4H	15.77	16.41	16.24	16.85	17.33	15.77	16.41	16.24	16.85	17.33
	6H	15.67	16.19	16.17	16.69	17.17	15.67	16.19	16.17	16.69	17.17
	8H	15.60	16.08	16.13	16.59	17.09	15.60	16.08	16.13	16.59	17.09
	12H	15.56	15.98	16.07	16.48	17.05	15.56	15.98	16.07	16.48	17.05
12H	4H	15.73	16.29	16.21	16.77	17.24	15.73	16.29	16.21	16.77	17.24
	6H	15.60	16.08	16.12	16.59	17.08	15.60	16.08	16.12	16.59	17.08
	8H	15.55	15.98	16.07	16.47	17.04	15.55	15.98	16.07	16.47	17.04