

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: P866924

Luminaire Tested: PRLX-2002-L-927-117L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-117L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

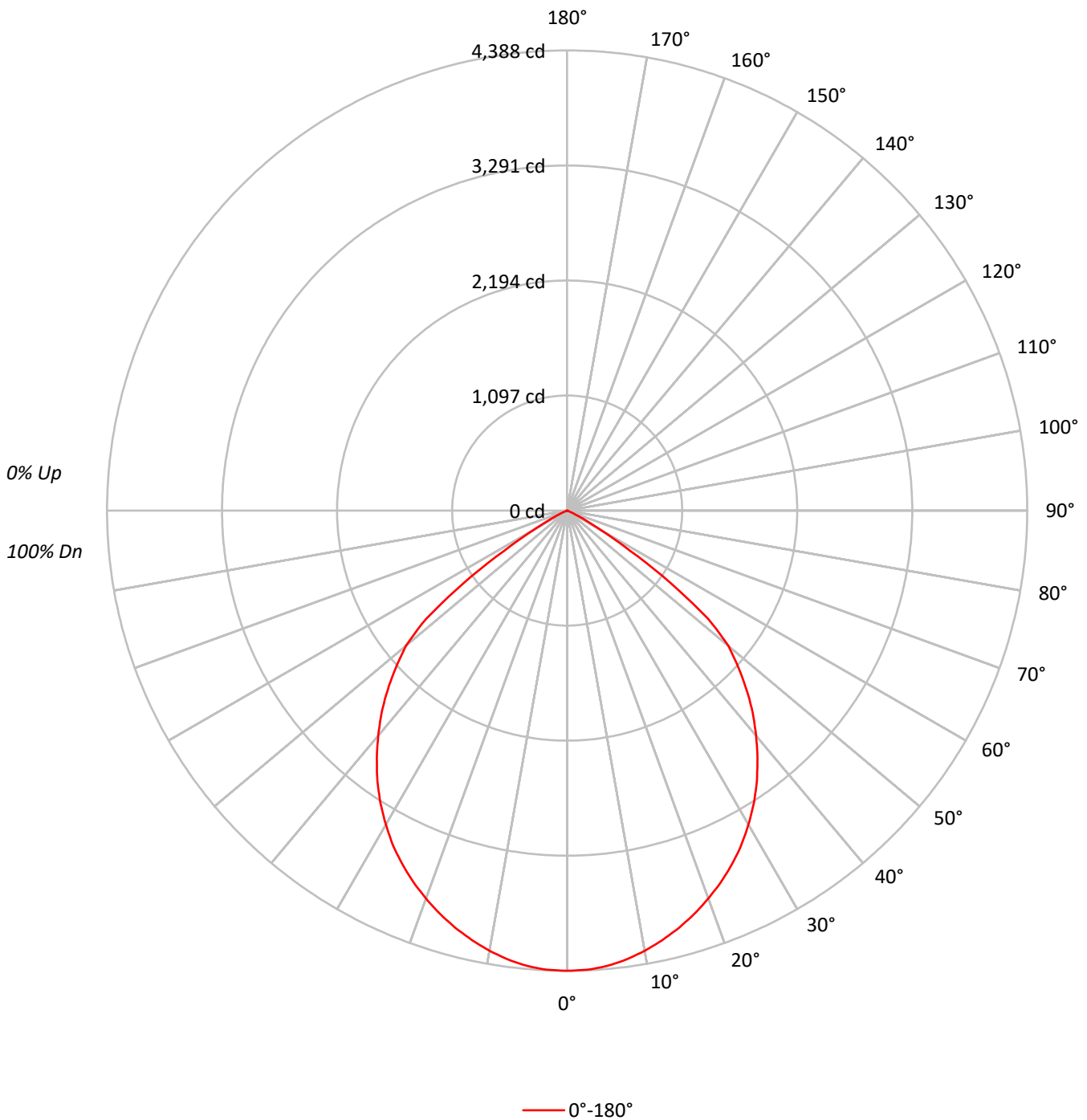
Lumens per Lamp: N/A
Luminaire Lumens: 8299.2 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	93	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		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21649
5°	21588
10°	21356
15°	21038
20°	20672
25°	20250
30°	19700
35°	18991
40°	18047
45°	16897
50°	15403
55°	10298
60°	3659
65°	846
70°	136
75°	143
80°	188
85°	215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.0	5.0
10°-20°	1160.8	14.0
20°-30°	1711.7	20.6
30°-40°	1967.0	23.7
40°-50°	1862.2	22.4
50°-60°	1060.2	12.8
60°-70°	112.4	1.4
70°-80°	8.1	0.1
80°-90°	3.7	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°	3285.5	39.6
0°-40°	5252.5	63.3
0°-60°	8175.0	98.5
0°-90°	8299.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8299.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4388	
5°	4359	413
15°	4119	1161
25°	3720	1712
35°	3153	1967
45°	2422	1862
55°	1197	1060
65°	72	112
75°	8	8
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4387.9
2.5°	4383.2
5°	4358.8
7.5°	4318.3
10°	4262.8
12.5°	4195.0
15°	4118.8
17.5°	4032.2
20°	3937.1
22.5°	3833.6
25°	3719.7
27.5°	3597.3
30°	3458.0
32.5°	3311.2
35°	3153.1
37.5°	2981.8
40°	2802.0
42.5°	2620.3
45°	2421.7
47.5°	2215.6
50°	2006.7
52.5°	1694.2
55°	1197.2
57.5°	714.4
60°	370.8
62.5°	185.4
65°	72.5
67.5°	14.1
70°	9.4
72.5°	8.5
75°	7.5
77.5°	6.6
80°	6.6
82.5°	4.7
85°	3.8
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	16.58	17.94	16.94	18.25	18.57	16.58	17.94	16.94	18.25	18.57
	3H	16.45	17.65	16.83	17.98	18.34	16.45	17.65	16.83	17.98	18.34
	4H	16.38	17.49	16.79	17.84	18.23	16.38	17.49	16.79	17.84	18.23
	6H	16.31	17.32	16.72	17.69	18.09	16.31	17.32	16.72	17.69	18.09
	8H	16.27	17.23	16.70	17.62	18.02	16.27	17.23	16.70	17.62	18.02
	12H	16.23	17.14	16.66	17.53	17.96	16.23	17.14	16.66	17.53	17.96
4H	2H	16.41	17.51	16.81	17.86	18.25	16.41	17.51	16.81	17.86	18.25
	3H	16.28	17.17	16.70	17.58	17.98	16.28	17.17	16.70	17.58	17.98
	4H	16.20	16.99	16.63	17.40	17.85	16.20	16.99	16.63	17.40	17.85
	6H	16.12	16.80	16.58	17.24	17.71	16.12	16.80	16.58	17.24	17.71
	8H	16.06	16.70	16.53	17.14	17.61	16.06	16.70	16.53	17.14	17.61
	12H	16.01	16.58	16.50	17.06	17.53	16.01	16.58	16.50	17.06	17.53
8H	4H	16.06	16.69	16.53	17.14	17.61	16.06	16.69	16.53	17.14	17.61
	6H	15.95	16.48	16.46	16.97	17.45	15.95	16.48	16.46	16.97	17.45
	8H	15.89	16.36	16.41	16.88	17.37	15.89	16.36	16.41	16.88	17.37
	12H	15.84	16.26	16.35	16.76	17.33	15.84	16.26	16.35	16.76	17.33
12H	4H	16.01	16.57	16.50	17.05	17.53	16.01	16.57	16.50	17.05	17.53
	6H	15.89	16.36	16.41	16.87	17.37	15.89	16.36	16.41	16.87	17.37
	8H	15.83	16.26	16.35	16.76	17.33	15.83	16.26	16.35	16.76	17.33