

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: P866944

Luminaire Tested: PRLX-2002-L-927-15L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-15L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

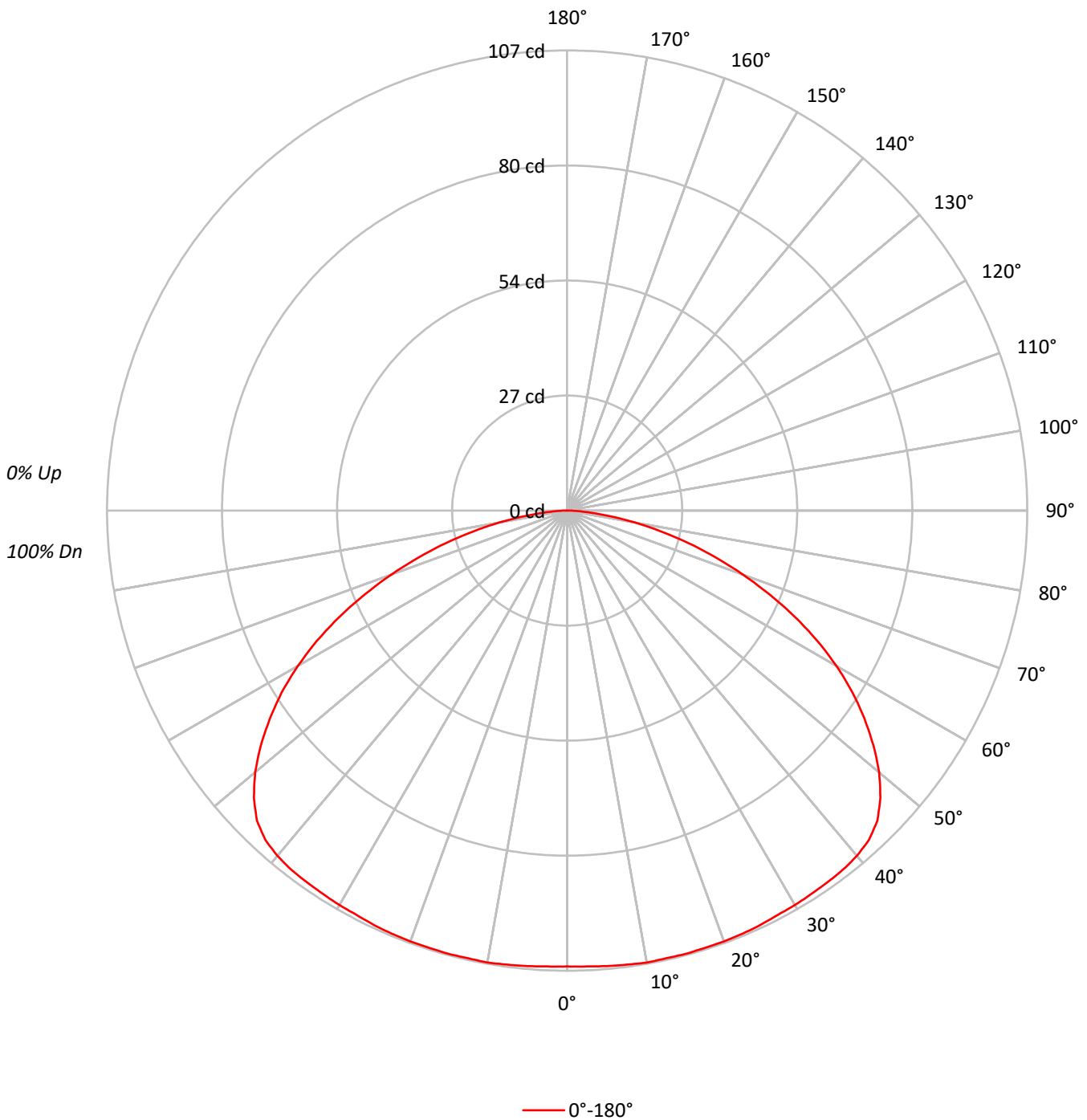
Lumens per Lamp: N/A
Luminaire Lumens: 404.6 lumens
Efficiency: N/A
Efficacy: 24.7 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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

TEST NUMBER: P866944

CATALOG NUMBER: PRLX-2002-L-927-15L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866944

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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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	523
5°	526
10°	535
15°	545
20°	560
25°	579
30°	603
35°	635
40°	675
45°	712
50°	727
55°	726
60°	713
65°	682
70°	626
75°	555
80°	455
85°	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 728 cd/sqm

TEST NUMBER: P866944

CATALOG NUMBER: PRLX-2002-L-927-15L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	2.5
10°-20°	30.2	7.5
20°-30°	49.2	12.2
30°-40°	66.2	16.4
40°-50°	78.2	19.3
50°-60°	75.3	18.6
60°-70°	57.6	14.2
70°-80°	30.9	7.6
80°-90°	6.9	1.7
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°	89.6	22.1
0°-40°	155.8	38.5
0°-60°	309.3	76.4
0°-90°	404.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	106	
5°	106	10
15°	107	30
25°	106	49
35°	106	66
45°	102	78
55°	84	75
65°	58	58
75°	29	31
85°	5	7
90°	0	

TEST NUMBER: P866944

CATALOG NUMBER: PRLX-2002-L-927-15L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	106.0
2.5°	106.1
5°	106.3
7.5°	106.5
10°	106.7
12.5°	106.6
15°	106.7
17.5°	106.6
20°	106.6
22.5°	106.5
25°	106.3
27.5°	106.0
30°	105.9
32.5°	105.7
35°	105.5
37.5°	105.3
40°	104.8
42.5°	103.9
45°	102.0
47.5°	98.8
50°	94.7
52.5°	89.8
55°	84.4
57.5°	78.7
60°	72.3
62.5°	65.6
65°	58.4
67.5°	50.9
70°	43.4
72.5°	36.2
75°	29.1
77.5°	22.3
80°	16.0
82.5°	10.1
85°	5.4
87.5°	1.8
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	11.51	13.22	11.87	13.54	13.85	11.51	13.22	11.87	13.54	13.85
	3H	13.26	14.82	13.64	15.14	15.50	13.26	14.82	13.64	15.14	15.50
	4H	13.87	15.33	14.27	15.68	16.05	13.87	15.33	14.27	15.68	16.05
	6H	14.27	15.63	14.68	15.99	16.38	14.27	15.63	14.68	15.99	16.38
	8H	14.37	15.67	14.79	16.06	16.45	14.37	15.67	14.79	16.06	16.45
	12H	14.42	15.67	14.85	16.05	16.47	14.42	15.67	14.85	16.05	16.47
4H	2H	12.16	13.63	12.56	13.97	14.35	12.16	13.63	12.56	13.97	14.35
	3H	14.11	15.35	14.52	15.74	16.14	14.11	15.35	14.52	15.74	16.14
	4H	14.84	15.95	15.27	16.36	16.80	14.84	15.95	15.27	16.36	16.80
	6H	15.34	16.32	15.79	16.76	17.21	15.34	16.32	15.79	16.76	17.21
	8H	15.48	16.39	15.94	16.83	17.30	15.48	16.39	15.94	16.83	17.30
	12H	15.56	16.38	16.04	16.86	17.32	15.56	16.38	16.04	16.86	17.32
8H	4H	15.12	16.03	15.58	16.47	16.94	15.12	16.03	15.58	16.47	16.94
	6H	15.72	16.48	16.21	16.97	17.44	15.72	16.48	16.21	16.97	17.44
	8H	15.91	16.59	16.41	17.09	17.58	15.91	16.59	16.41	17.09	17.58
	12H	16.03	16.64	16.54	17.13	17.68	16.03	16.64	16.54	17.13	17.68
12H	4H	15.15	15.97	15.63	16.44	16.91	15.15	15.97	15.63	16.44	16.91
	6H	15.76	16.44	16.26	16.95	17.43	15.76	16.44	16.26	16.95	17.43
	8H	15.99	16.59	16.50	17.08	17.64	15.99	16.59	16.50	17.08	17.64