

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: P866696

Luminaire Tested: PRLX-2001-L-927-32L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-32L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

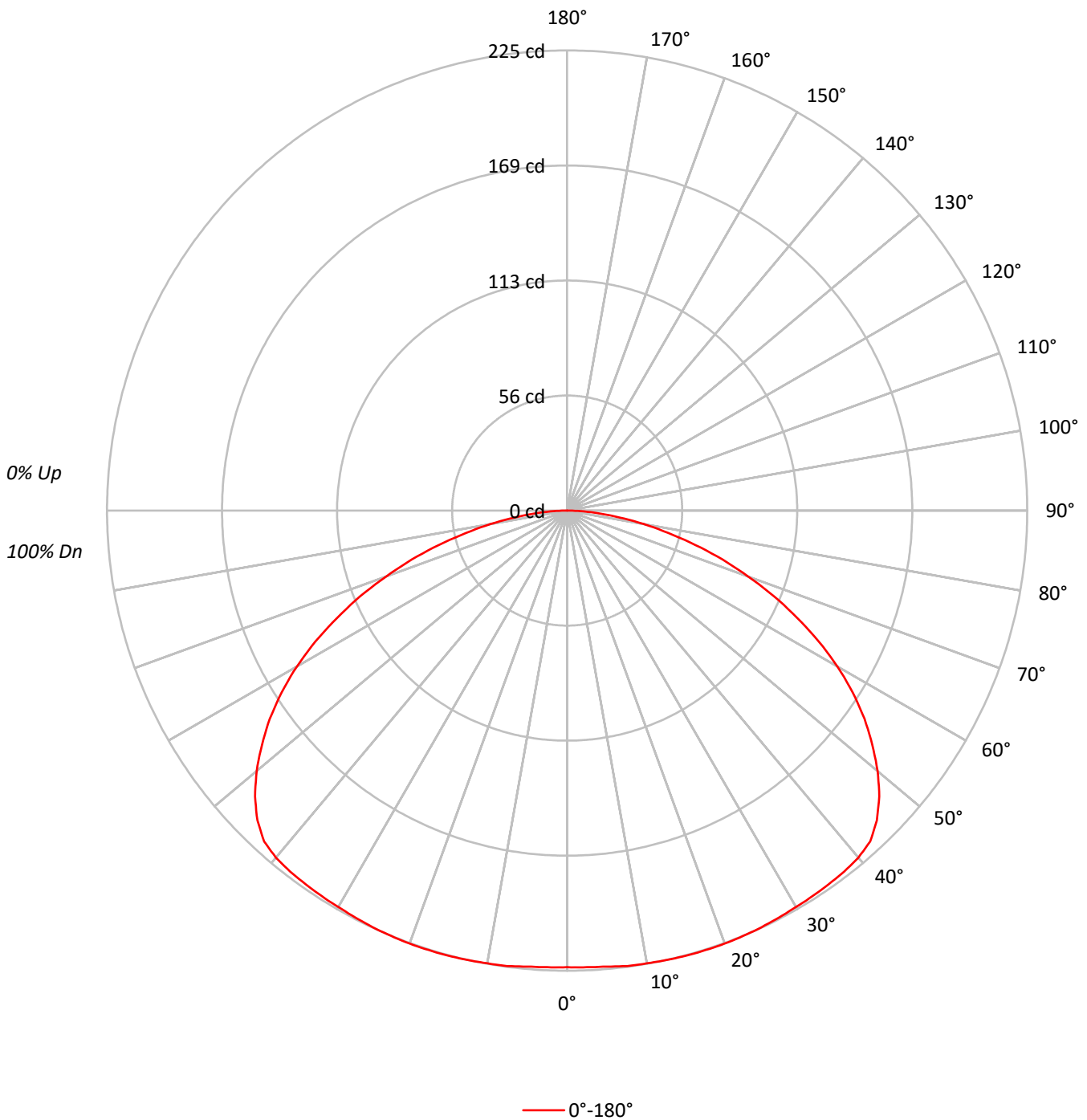
Lumens per Lamp: N/A
Luminaire Lumens: 861.3 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: P866696

CATALOG NUMBER: PRLX-2001-L-927-32L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866696

CATALOG NUMBER: PRLX-2001-L-927-32L-G-X-X-BLAK-X

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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1221
5°	1228
10°	1248
15°	1275
20°	1311
25°	1356
30°	1413
35°	1488
40°	1581
45°	1656
50°	1686
55°	1692
60°	1670
65°	1604
70°	1504
75°	1371
80°	1196
85°	941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1692 cd/sqm

TEST NUMBER: P866696

CATALOG NUMBER: PRLX-2001-L-927-32L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	2.5
10°-20°	63.8	7.4
20°-30°	104.0	12.1
30°-40°	140.0	16.3
40°-50°	164.4	19.1
50°-60°	158.1	18.4
60°-70°	122.7	14.2
70°-80°	68.8	8.0
80°-90°	18.0	2.1
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°	189.2	22.0
0°-40°	329.2	38.2
0°-60°	651.7	75.7
0°-90°	861.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	223	
5°	224	21
15°	225	64
25°	225	104
35°	223	140
45°	214	164
55°	178	158
65°	124	123
75°	65	69
85°	15	18
90°	0	

TEST NUMBER: P866696

CATALOG NUMBER: PRLX-2001-L-927-32L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	223.3
2.5°	223.5
5°	223.8
7.5°	224.6
10°	224.8
12.5°	225.1
15°	225.3
17.5°	225.3
20°	225.3
22.5°	225.1
25°	224.8
27.5°	224.3
30°	223.8
32.5°	223.5
35°	223.0
37.5°	222.5
40°	221.5
42.5°	219.4
45°	214.2
47.5°	207.0
50°	198.2
52.5°	188.1
55°	177.5
57.5°	165.6
60°	152.7
62.5°	138.8
65°	124.0
67.5°	109.6
70°	94.1
72.5°	79.6
75°	64.9
77.5°	50.6
80°	38.0
82.5°	25.8
85°	15.0
87.5°	6.5
90°	0.0



TEST NUMBER: P866696
 CATALOG NUMBER: PRLX-2001-L-927-32L-G-X-X-BLAK-X

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	14.41	16.13	14.77	16.44	16.75	14.41	16.13	14.77	16.44	16.75
	3H	16.23	17.79	16.61	18.12	18.48	16.23	17.79	16.61	18.12	18.48
	4H	16.89	18.36	17.29	18.71	19.08	16.89	18.36	17.29	18.71	19.08
	6H	17.35	18.72	17.76	19.08	19.47	17.35	18.72	17.76	19.08	19.47
	8H	17.49	18.80	17.92	19.19	19.59	17.49	18.80	17.92	19.19	19.59
	12H	17.58	18.84	18.01	19.22	19.65	17.58	18.84	18.01	19.22	19.65
4H	2H	15.07	16.54	15.46	16.89	17.26	15.07	16.54	15.46	16.89	17.26
	3H	17.10	18.34	17.51	18.74	19.14	17.10	18.34	17.51	18.74	19.14
	4H	17.88	19.01	18.31	19.42	19.85	17.88	19.01	18.31	19.42	19.85
	6H	18.47	19.45	18.92	19.89	20.34	18.47	19.45	18.92	19.89	20.34
	8H	18.65	19.58	19.11	20.02	20.48	18.65	19.58	19.11	20.02	20.48
	12H	18.78	19.61	19.26	20.09	20.55	18.78	19.61	19.26	20.09	20.55
8H	4H	18.20	19.12	18.65	19.56	20.02	18.20	19.12	18.65	19.56	20.02
	6H	18.89	19.66	19.38	20.15	20.62	18.89	19.66	19.38	20.15	20.62
	8H	19.15	19.84	19.65	20.34	20.82	19.15	19.84	19.65	20.34	20.82
	12H	19.34	19.95	19.84	20.44	20.99	19.34	19.95	19.84	20.44	20.99
12H	4H	18.23	19.06	18.71	19.54	20.00	18.23	19.06	18.71	19.54	20.00
	6H	18.95	19.64	19.45	20.14	20.63	18.95	19.64	19.45	20.14	20.63
	8H	19.25	19.86	19.76	20.35	20.91	19.25	19.86	19.76	20.35	20.91