

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: P866712

Luminaire Tested: PRLX-2001-L-927-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866712
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: Pentalux
Catalog Number: PRLX-2001-L-927-67L-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 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

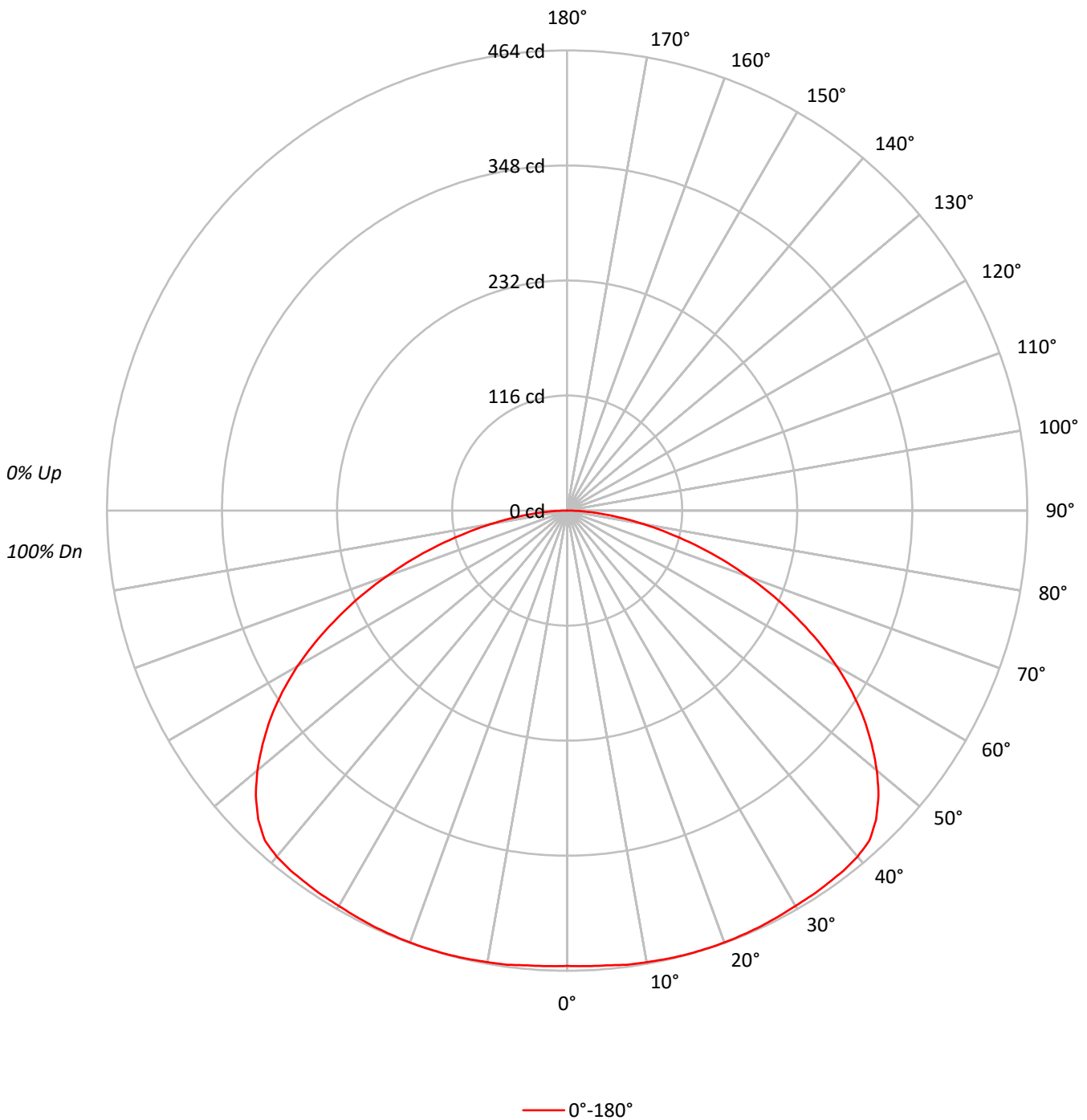
Lumens per Lamp: N/A
Luminaire Lumens: 1771.6 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: P866712

CATALOG NUMBER: PRLX-2001-L-927-67L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866712

CATALOG NUMBER: PRLX-2001-L-927-67L-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°	2510
5°	2526
10°	2567
15°	2623
20°	2697
25°	2789
30°	2906
35°	3061
40°	3251
45°	3406
50°	3467
55°	3481
60°	3434
65°	3300
70°	3093
75°	2818
80°	2459
85°	1932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3481 cd/sqm

TEST NUMBER: P866712

CATALOG NUMBER: PRLX-2001-L-927-67L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	2.5
10°-20°	131.3	7.4
20°-30°	213.9	12.1
30°-40°	288.0	16.3
40°-50°	338.2	19.1
50°-60°	325.3	18.4
60°-70°	252.3	14.2
70°-80°	141.6	8.0
80°-90°	37.1	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°	389.2	22.0
0°-40°	677.2	38.2
0°-60°	1340.7	75.7
0°-90°	1771.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	459	
5°	460	44
15°	464	131
25°	462	214
35°	459	288
45°	441	338
55°	365	325
65°	255	252
75°	133	142
85°	31	37
90°	0	

TEST NUMBER: P866712

CATALOG NUMBER: PRLX-2001-L-927-67L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	459.2
2.5°	459.8
5°	460.3
7.5°	461.9
10°	462.4
12.5°	463.0
15°	463.5
17.5°	463.5
20°	463.5
22.5°	463.0
25°	462.4
27.5°	461.4
30°	460.3
32.5°	459.8
35°	458.7
37.5°	457.7
40°	455.5
42.5°	451.3
45°	440.6
47.5°	425.8
50°	407.7
52.5°	387.0
55°	365.2
57.5°	340.7
60°	314.1
62.5°	285.4
65°	255.1
67.5°	225.4
70°	193.5
72.5°	163.7
75°	133.4
77.5°	104.2
80°	78.1
82.5°	53.2
85°	30.8
87.5°	13.3
90°	0.0

TEST NUMBER: P866712
 CATALOG NUMBER: PRLX-2001-L-927-67L-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	16.91	18.63	17.28	18.95	19.26	16.91	18.63	17.28	18.95	19.26
	3H	18.74	20.30	19.11	20.62	20.98	18.74	20.30	19.11	20.62	20.98
	4H	19.40	20.87	19.79	21.22	21.59	19.40	20.87	19.79	21.22	21.59
	6H	19.86	21.23	20.27	21.59	21.98	19.86	21.23	20.27	21.59	21.98
	8H	20.00	21.31	20.42	21.70	22.09	20.00	21.31	20.42	21.70	22.09
	12H	20.09	21.34	20.52	21.72	22.15	20.09	21.34	20.52	21.72	22.15
4H	2H	17.57	19.05	17.97	19.39	19.77	17.57	19.05	17.97	19.39	19.77
	3H	19.61	20.85	20.02	21.24	21.64	19.61	20.85	20.02	21.24	21.64
	4H	20.39	21.51	20.82	21.92	22.36	20.39	21.51	20.82	21.92	22.36
	6H	20.97	21.96	21.42	22.40	22.85	20.97	21.96	21.42	22.40	22.85
	8H	21.16	22.08	21.62	22.52	22.99	21.16	22.08	21.62	22.52	22.99
	12H	21.29	22.12	21.77	22.59	23.06	21.29	22.12	21.77	22.59	23.06
8H	4H	20.70	21.62	21.16	22.06	22.53	20.70	21.62	21.16	22.06	22.53
	6H	21.40	22.17	21.89	22.65	23.13	21.40	22.17	21.89	22.65	23.13
	8H	21.65	22.34	22.16	22.85	23.33	21.65	22.34	22.16	22.85	23.33
	12H	21.84	22.45	22.35	22.94	23.50	21.84	22.45	22.35	22.94	23.50
12H	4H	20.74	21.57	21.21	22.04	22.51	20.74	21.57	21.21	22.04	22.51
	6H	21.45	22.14	21.96	22.65	23.13	21.45	22.14	21.96	22.65	23.13
	8H	21.76	22.37	22.26	22.86	23.42	21.76	22.37	22.26	22.86	23.42