

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: P867120

Luminaire Tested: PRLX-2002-L-940-117L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867120
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: Pentalux
Catalog Number: PRLX-2002-L-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

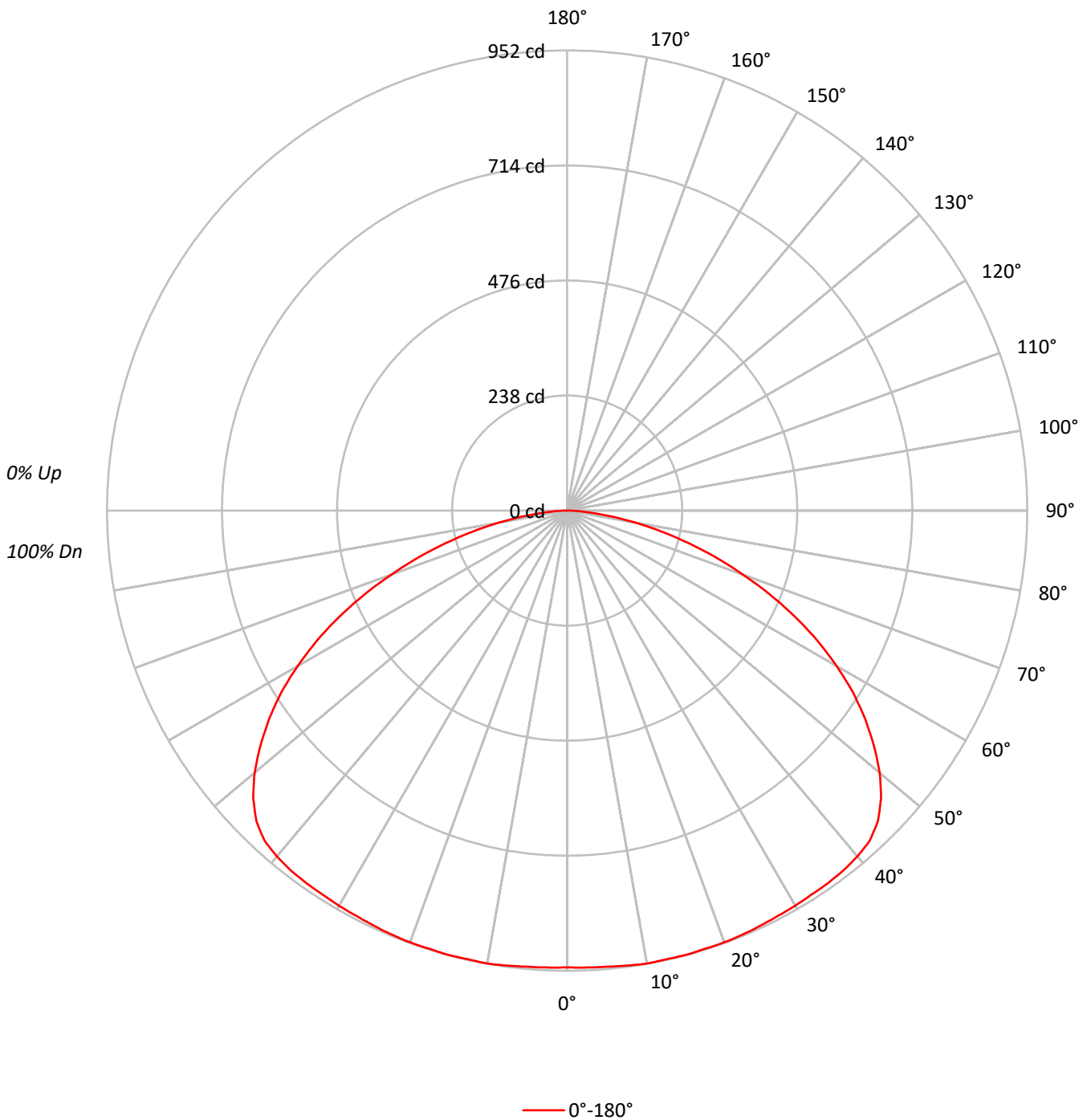
Lumens per Lamp: N/A
Luminaire Lumens: 3607.1 lumens
Efficiency: N/A
Efficacy: 37.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P867120

CATALOG NUMBER: PRLX-2002-L-940-117L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P867120

CATALOG NUMBER: PRLX-2002-L-940-117L-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	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°	4663
5°	4692
10°	4767
15°	4861
20°	4991
25°	5157
30°	5378
35°	5666
40°	6017
45°	6344
50°	6479
55°	6475
60°	6357
65°	6074
70°	5578
75°	4949
80°	4043
85°	2706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6489 cd/sqm

TEST NUMBER: P867120

CATALOG NUMBER: PRLX-2002-L-940-117L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.5
10°-20°	269.5	7.5
20°-30°	438.4	12.2
30°-40°	590.4	16.4
40°-50°	697.2	19.3
50°-60°	671.0	18.6
60°-70°	513.1	14.2
70°-80°	275.6	7.6
80°-90°	61.3	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°	798.5	22.1
0°-40°	1388.9	38.5
0°-60°	2757.1	76.4
0°-90°	3607.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3607.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	945	
5°	947	91
15°	952	270
25°	947	438
35°	941	590
45°	909	697
55°	753	671
65°	520	513
75°	260	276
85°	48	61
90°	0	

TEST NUMBER: P867120

CATALOG NUMBER: PRLX-2002-L-940-117L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	945.1
2.5°	946.2
5°	947.3
7.5°	949.4
10°	951.6
12.5°	950.5
15°	951.6
17.5°	950.5
20°	950.5
22.5°	949.4
25°	947.3
27.5°	945.1
30°	944.0
32.5°	941.8
35°	940.7
37.5°	938.6
40°	934.2
42.5°	926.6
45°	909.2
47.5°	881.0
50°	844.1
52.5°	800.6
55°	752.8
57.5°	701.8
60°	644.2
62.5°	584.4
65°	520.3
67.5°	454.1
70°	386.7
72.5°	322.6
75°	259.6
77.5°	198.8
80°	142.3
82.5°	90.2
85°	47.8
87.5°	16.3
90°	0.0



TEST NUMBER: P867120
 CATALOG NUMBER: PRLX-2002-L-940-117L-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	19.11	20.83	19.48	21.14	21.46	19.11	20.83	19.48	21.14	21.46
	3H	20.87	22.42	21.24	22.75	23.10	20.87	22.42	21.24	22.75	23.10
	4H	21.47	22.94	21.87	23.28	23.66	21.47	22.94	21.87	23.28	23.66
	6H	21.87	23.23	22.28	23.59	23.98	21.87	23.23	22.28	23.59	23.98
	8H	21.97	23.27	22.39	23.66	24.06	21.97	23.27	22.39	23.66	24.06
	12H	22.02	23.27	22.45	23.65	24.08	22.02	23.27	22.45	23.65	24.08
4H	2H	19.76	21.23	20.16	21.57	21.95	19.76	21.23	20.16	21.57	21.95
	3H	21.72	22.95	22.12	23.34	23.74	21.72	22.95	22.12	23.34	23.74
	4H	22.44	23.55	22.87	23.96	24.40	22.44	23.55	22.87	23.96	24.40
	6H	22.94	23.92	23.40	24.36	24.81	22.94	23.92	23.40	24.36	24.81
	8H	23.08	23.99	23.54	24.43	24.90	23.08	23.99	23.54	24.43	24.90
	12H	23.16	23.98	23.64	24.46	24.92	23.16	23.98	23.64	24.46	24.92
8H	4H	22.72	23.64	23.18	24.08	24.54	22.72	23.64	23.18	24.08	24.54
	6H	23.32	24.08	23.81	24.57	25.04	23.32	24.08	23.81	24.57	25.04
	8H	23.51	24.19	24.02	24.69	25.18	23.51	24.19	24.02	24.69	25.18
	12H	23.63	24.24	24.14	24.73	25.28	23.63	24.24	24.14	24.73	25.28
12H	4H	22.75	23.57	23.23	24.04	24.51	22.75	23.57	23.23	24.04	24.51
	6H	23.36	24.04	23.86	24.55	25.03	23.36	24.04	23.86	24.55	25.03
	8H	23.59	24.19	24.10	24.68	25.24	23.59	24.19	24.10	24.68	25.24