

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: P866864

Luminaire Tested: PRLX-2001-L-940-117L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866864
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-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

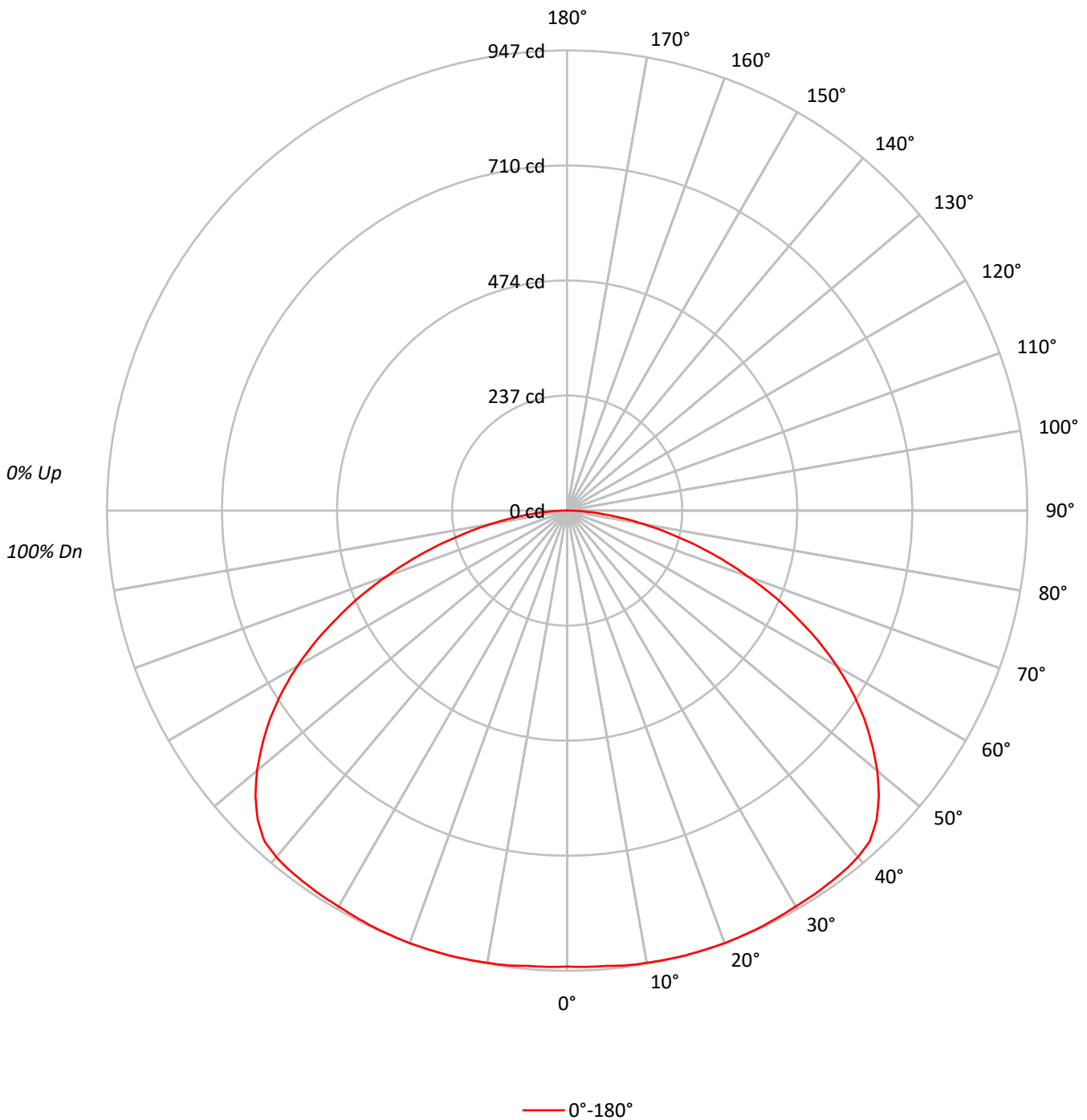
Lumens per Lamp: N/A
Luminaire Lumens: 3620.7 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P866864

CATALOG NUMBER: PRLX-2001-L-940-117L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866864

CATALOG NUMBER: PRLX-2001-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	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°	5131
5°	5162
10°	5246
15°	5361
20°	5511
25°	5701
30°	5938
35°	6257
40°	6644
45°	6963
50°	7086
55°	7113
60°	7019
65°	6745
70°	6320
75°	5760
80°	5028
85°	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7113 cd/sqm

TEST NUMBER: P866864

CATALOG NUMBER: PRLX-2001-L-940-117L-G-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	2.5
10°-20°	268.4	7.4
20°-30°	437.1	12.1
30°-40°	588.6	16.3
40°-50°	691.1	19.1
50°-60°	664.7	18.4
60°-70°	515.6	14.2
70°-80°	289.4	8.0
80°-90°	75.8	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°	795.5	22.0
0°-40°	1384.1	38.2
0°-60°	2739.9	75.7
0°-90°	3620.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	939	
5°	941	90
15°	947	268
25°	945	437
35°	938	589
45°	901	691
55°	746	665
65°	521	516
75°	273	289
85°	63	76
90°	0	

TEST NUMBER: P866864

CATALOG NUMBER: PRLX-2001-L-940-117L-G-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	938.6
2.5°	939.7
5°	940.7
7.5°	944.0
10°	945.1
12.5°	946.2
15°	947.3
17.5°	947.3
20°	947.3
22.5°	946.2
25°	945.1
27.5°	942.9
30°	940.7
32.5°	939.7
35°	937.5
37.5°	935.3
40°	931.0
42.5°	922.3
45°	900.6
47.5°	870.1
50°	833.2
52.5°	790.8
55°	746.3
57.5°	696.3
60°	642.0
62.5°	583.3
65°	521.4
67.5°	460.6
70°	395.4
72.5°	334.6
75°	272.7
77.5°	212.9
80°	159.7
82.5°	108.6
85°	63.0
87.5°	27.2
90°	0.0

TEST NUMBER: P866864

CATALOG NUMBER: PRLX-2001-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	19.40	21.12	19.76	21.43	21.74	19.40	21.12	19.76	21.43	21.74
	3H	21.22	22.78	21.60	23.11	23.47	21.22	22.78	21.60	23.11	23.47
	4H	21.88	23.35	22.28	23.70	24.07	21.88	23.35	22.28	23.70	24.07
	6H	22.34	23.71	22.75	24.07	24.46	22.34	23.71	22.75	24.07	24.46
	8H	22.48	23.79	22.90	24.18	24.58	22.48	23.79	22.90	24.18	24.58
	12H	22.57	23.83	23.00	24.21	24.63	22.57	23.83	23.00	24.21	24.63
4H	2H	20.06	21.53	20.45	21.88	22.25	20.06	21.53	20.45	21.88	22.25
	3H	22.09	23.33	22.50	23.73	24.13	22.09	23.33	22.50	23.73	24.13
	4H	22.87	24.00	23.30	24.41	24.84	22.87	24.00	23.30	24.41	24.84
	6H	23.46	24.44	23.91	24.88	25.33	23.46	24.44	23.91	24.88	25.33
	8H	23.64	24.57	24.10	25.01	25.47	23.64	24.57	24.10	25.01	25.47
	12H	23.77	24.60	24.25	25.08	25.54	23.77	24.60	24.25	25.08	25.54
8H	4H	23.18	24.11	23.64	24.55	25.01	23.18	24.11	23.64	24.55	25.01
	6H	23.88	24.65	24.37	25.14	25.61	23.88	24.65	24.37	25.14	25.61
	8H	24.13	24.83	24.64	25.33	25.81	24.13	24.83	24.64	25.33	25.81
	12H	24.33	24.94	24.83	25.43	25.98	24.33	24.94	24.83	25.43	25.98
12H	4H	23.22	24.05	23.70	24.53	24.99	23.22	24.05	23.70	24.53	24.99
	6H	23.94	24.63	24.44	25.13	25.62	23.94	24.63	24.44	25.13	25.62
	8H	24.24	24.85	24.75	25.34	25.90	24.24	24.85	24.75	25.34	25.90