

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: P867370

Luminaire Tested: PRLX-2004-L-940-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

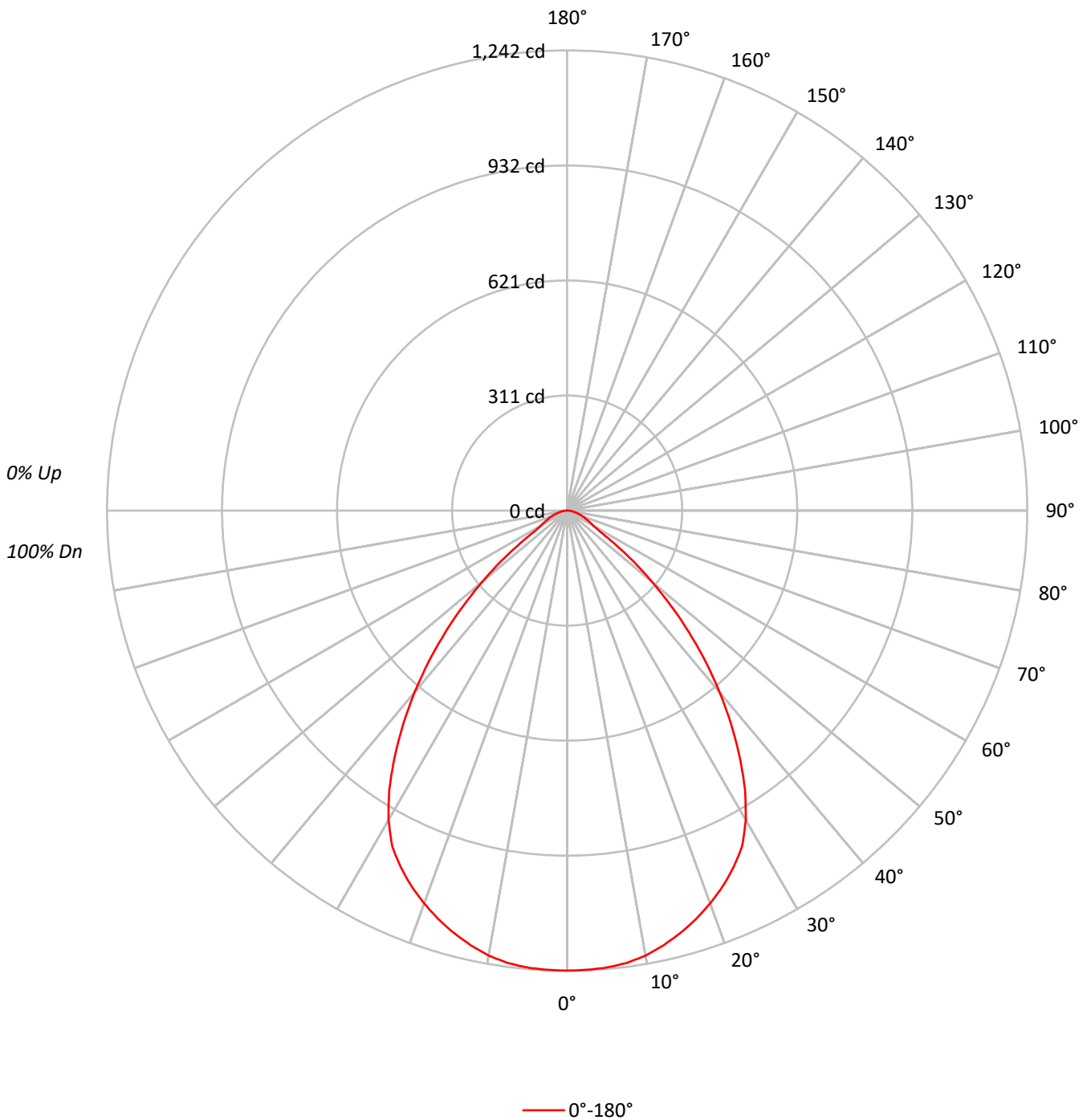
Lumens per Lamp: N/A
Luminaire Lumens: 2048.6 lumens
Efficiency: N/A
Efficacy: 25.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867370

CATALOG NUMBER: PRLX-2004-L-940-100L-G-X-X-GREY-X

Luminous Intensity Polar Plot





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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6126
5°	6131
10°	6109
15°	6029
20°	5925
25°	5784
30°	5492
35°	4889
40°	4127
45°	3247
50°	2288
55°	1334
60°	806
65°	693
70°	616
75°	549
80°	500
85°	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3247 cd/sqm

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CATALOG NUMBER: PRLX-2004-L-940-100L-G-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	5.7
10°-20°	332.6	16.2
20°-30°	487.2	23.8
30°-40°	504.0	24.6
40°-50°	357.9	17.5
50°-60°	148.9	7.3
60°-70°	60.1	2.9
70°-80°	31.0	1.5
80°-90°	9.2	0.5
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°	937.4	45.8
0°-40°	1441.4	70.4
0°-60°	1948.2	95.1
0°-90°	2048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2048.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1242	
5°	1238	118
15°	1180	333
25°	1062	487
35°	812	504
45°	465	358
55°	155	149
65°	59	60
75°	29	31
85°	8	9
90°	0	

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CATALOG NUMBER: PRLX-2004-L-940-100L-G-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1241.7
2.5°	1240.7
5°	1238.0
7.5°	1231.5
10°	1219.4
12.5°	1201.7
15°	1180.4
17.5°	1156.2
20°	1128.4
22.5°	1097.7
25°	1062.4
27.5°	1022.5
30°	964.0
32.5°	893.4
35°	811.7
37.5°	727.2
40°	640.8
42.5°	552.6
45°	465.3
47.5°	379.8
50°	298.1
52.5°	224.7
55°	155.1
57.5°	103.1
60°	81.7
62.5°	70.6
65°	59.4
67.5°	51.1
70°	42.7
72.5°	35.3
75°	28.8
77.5°	23.2
80°	17.6
82.5°	13.0
85°	8.4
87.5°	3.7
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	8.23	9.52	8.60	9.83	10.15	8.23	9.52	8.60	9.83	10.15
	3H	9.30	10.44	9.68	10.77	11.13	9.30	10.44	9.68	10.77	11.13
	4H	9.70	10.75	10.10	11.10	11.49	9.70	10.75	10.10	11.10	11.49
	6H	10.00	10.97	10.41	11.34	11.73	10.00	10.97	10.41	11.34	11.73
	8H	10.10	11.02	10.53	11.41	11.82	10.10	11.02	10.53	11.41	11.82
	12H	10.17	11.05	10.60	11.43	11.86	10.17	11.05	10.60	11.43	11.86
4H	2H	8.54	9.60	8.94	9.95	10.33	8.54	9.60	8.94	9.95	10.33
	3H	9.82	10.69	10.24	11.09	11.49	9.82	10.69	10.24	11.09	11.49
	4H	10.34	11.10	10.77	11.52	11.97	10.34	11.10	10.77	11.52	11.97
	6H	10.76	11.42	11.22	11.87	12.34	10.76	11.42	11.22	11.87	12.34
	8H	10.91	11.52	11.38	11.97	12.44	10.91	11.52	11.38	11.97	12.44
	12H	11.02	11.56	11.50	12.05	12.52	11.02	11.56	11.50	12.05	12.52
8H	4H	10.49	11.11	10.96	11.56	12.03	10.49	11.11	10.96	11.56	12.03
	6H	11.02	11.53	11.53	12.03	12.51	11.02	11.53	11.53	12.03	12.51
	8H	11.24	11.69	11.76	12.21	12.70	11.24	11.69	11.76	12.21	12.70
	12H	11.43	11.83	11.94	12.33	12.90	11.43	11.83	11.94	12.33	12.90
12H	4H	10.49	11.03	10.97	11.52	11.99	10.49	11.03	10.97	11.52	11.99
	6H	11.04	11.50	11.56	12.01	12.50	11.04	11.50	11.56	12.01	12.50
	8H	11.31	11.71	11.83	12.21	12.78	11.31	11.71	11.83	12.21	12.78