

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: P867375

Luminaire Tested: PRLX-2004-L-940-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-117L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

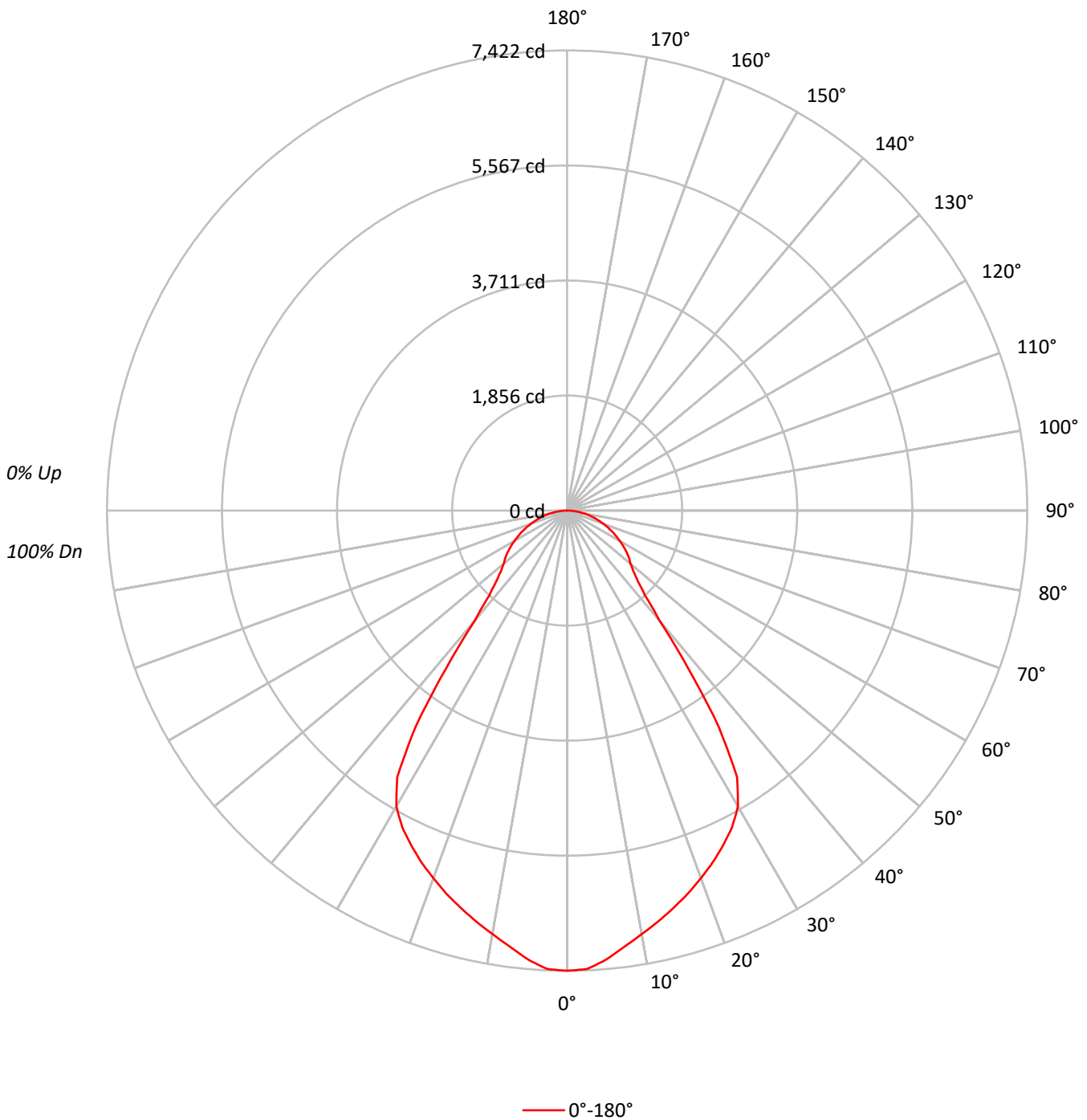
Lumens per Lamp: N/A
Luminaire Lumens: 11603.2 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: P867375

CATALOG NUMBER: PRLX-2004-L-940-117L-L-X-X-WHHR-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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36617
5°	35998
10°	34749
15°	33880
20°	33127
25°	32413
30°	31390
35°	25700
40°	14924
45°	11286
50°	10256
55°	10082
60°	9723
65°	9334
70°	8964
75°	8573
80°	8211
85°	7869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11286 cd/sqm

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CATALOG NUMBER: PRLX-2004-L-940-117L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.6	5.9
10°-20°	1870.3	16.1
20°-30°	2739.0	23.6
30°-40°	2546.7	21.9
40°-50°	1297.5	11.2
50°-60°	1043.8	9.0
60°-70°	792.6	6.8
70°-80°	477.4	4.1
80°-90°	153.4	1.3
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°	5292.0	45.6
0°-40°	7838.7	67.6
0°-60°	10179.9	87.7
0°-90°	11603.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11603.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7422	
5°	7268	683
15°	6633	1870
25°	5954	2739
35°	4267	2547
45°	1618	1297
55°	1172	1044
65°	800	793
75°	450	477
85°	139	153
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	7421.7
2.5°	7399.9
5°	7268.5
7.5°	7092.5
10°	6936.1
12.5°	6787.3
15°	6633.0
17.5°	6476.6
20°	6309.3
22.5°	6139.8
25°	5954.1
27.5°	5758.5
30°	5509.8
32.5°	5100.2
35°	4267.0
37.5°	3202.4
40°	2317.1
42.5°	1863.0
45°	1617.5
47.5°	1444.8
50°	1336.2
52.5°	1257.9
55°	1172.1
57.5°	1076.5
60°	985.3
62.5°	890.8
65°	799.5
67.5°	709.4
70°	621.4
72.5°	535.6
75°	449.7
77.5°	369.3
80°	289.0
82.5°	214.0
85°	139.0
87.5°	66.3
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	18.49	19.84	18.85	20.16	20.47	18.49	19.84	18.85	20.16	20.47
	3H	20.29	21.50	20.67	21.83	22.19	20.29	21.50	20.67	21.83	22.19
	4H	20.99	22.13	21.40	22.48	22.86	20.99	22.13	21.40	22.48	22.86
	6H	21.55	22.60	21.97	22.97	23.37	21.55	22.60	21.97	22.97	23.37
	8H	21.76	22.75	22.18	23.14	23.55	21.76	22.75	22.18	23.14	23.55
	12H	21.90	22.85	22.33	23.24	23.67	21.90	22.85	22.33	23.24	23.67
4H	2H	19.08	20.21	19.48	20.56	20.94	19.08	20.21	19.48	20.56	20.94
	3H	21.10	22.04	21.51	22.44	22.85	21.10	22.04	21.51	22.44	22.85
	4H	21.94	22.79	22.37	23.21	23.65	21.94	22.79	22.37	23.21	23.65
	6H	22.64	23.37	23.10	23.82	24.28	22.64	23.37	23.10	23.82	24.28
	8H	22.89	23.58	23.36	24.03	24.50	22.89	23.58	23.36	24.03	24.50
	12H	23.09	23.70	23.57	24.18	24.65	23.09	23.70	23.57	24.18	24.65
8H	4H	22.24	22.93	22.71	23.38	23.85	22.24	22.93	22.71	23.38	23.85
	6H	23.08	23.65	23.58	24.14	24.62	23.08	23.65	23.58	24.14	24.62
	8H	23.43	23.94	23.95	24.45	24.94	23.43	23.94	23.95	24.45	24.94
	12H	23.73	24.17	24.24	24.66	25.23	23.73	24.17	24.24	24.66	25.23
12H	4H	22.27	22.88	22.76	23.36	23.84	22.27	22.88	22.76	23.36	23.84
	6H	23.15	23.66	23.67	24.17	24.66	23.15	23.66	23.67	24.17	24.66
	8H	23.56	24.01	24.07	24.50	25.07	23.56	24.01	24.07	24.50	25.07