

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: P867047

Luminaire Tested: PRLX-2002-L-935-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-100L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

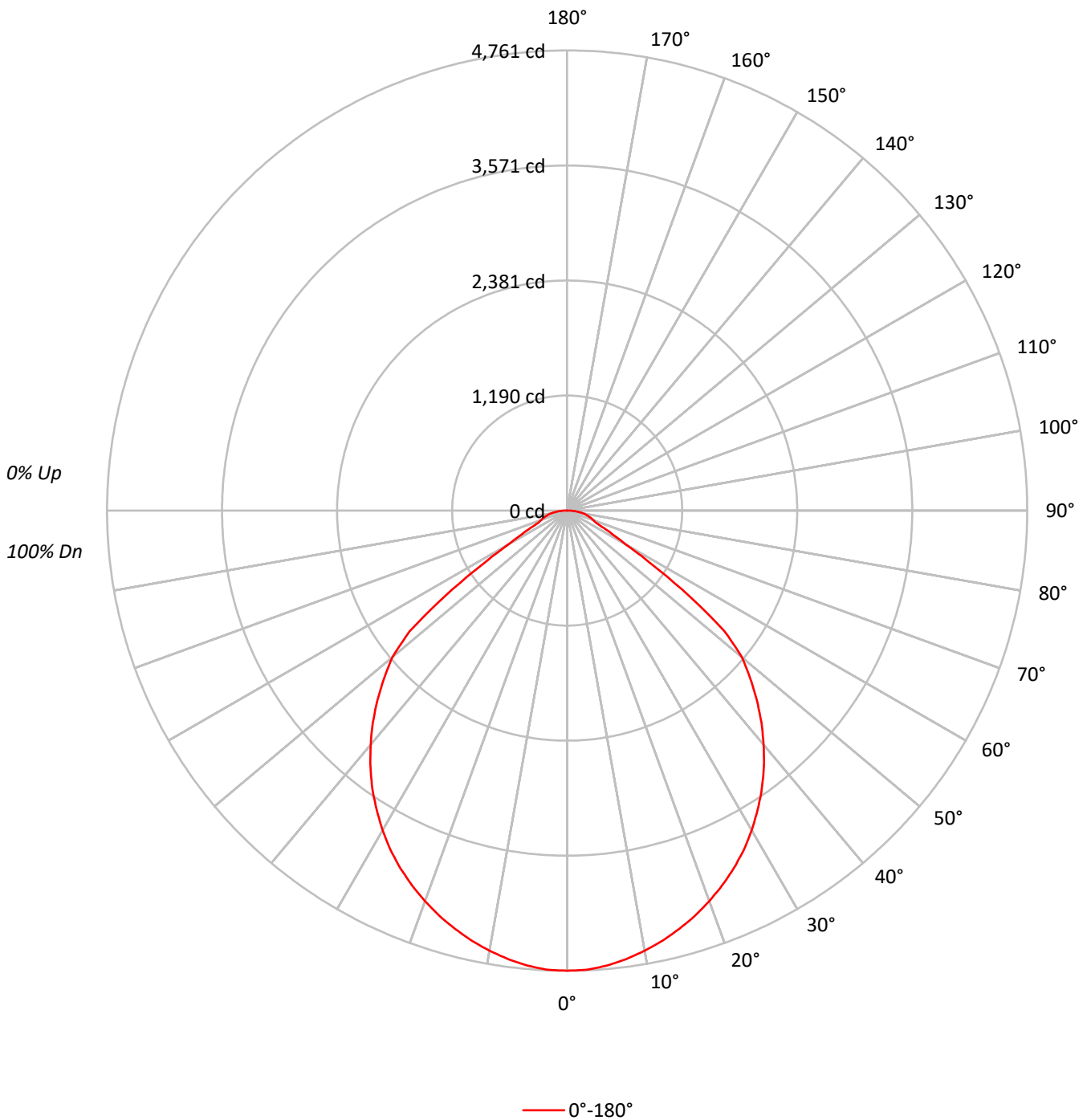
Lumens per Lamp: N/A
Luminaire Lumens: 10056.8 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P867047

CATALOG NUMBER: PRLX-2002-L-935-100L-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	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23490
5°	23403
10°	23161
15°	22883
20°	22573
25°	22223
30°	21752
35°	21158
40°	20369
45°	19360
50°	18115
55°	13268
60°	6935
65°	4622
70°	4131
75°	4392
80°	4802
85°	5287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19360 cd/sqm

TEST NUMBER: P867047

CATALOG NUMBER: PRLX-2002-L-935-100L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	4.5
10°-20°	1263.5	12.6
20°-30°	1879.0	18.7
30°-40°	2193.3	21.8
40°-50°	2136.8	21.2
50°-60°	1369.0	13.6
60°-70°	426.3	4.2
70°-80°	242.8	2.4
80°-90°	98.3	1.0
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°	3590.3	35.7
0°-40°	5783.6	57.5
0°-60°	9289.4	92.4
0°-90°	10056.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10056.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4761	
5°	4725	448
15°	4480	1264
25°	4082	1879
35°	3513	2193
45°	2775	2137
55°	1542	1369
65°	396	426
75°	230	243
85°	93	98
90°	0	

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CATALOG NUMBER: PRLX-2002-L-935-100L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	4761.0
2.5°	4753.9
5°	4725.4
7.5°	4681.0
10°	4623.1
12.5°	4558.2
15°	4479.9
17.5°	4396.3
20°	4299.3
22.5°	4195.3
25°	4082.3
27.5°	3957.7
30°	3818.1
32.5°	3669.5
35°	3512.9
37.5°	3343.9
40°	3162.5
42.5°	2974.8
45°	2774.6
47.5°	2570.0
50°	2360.1
52.5°	2054.0
55°	1542.5
57.5°	1044.4
60°	702.8
62.5°	524.0
65°	395.9
67.5°	314.0
70°	286.4
72.5°	260.6
75°	230.4
77.5°	201.0
80°	169.0
82.5°	133.4
85°	93.4
87.5°	49.8
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	18.52	19.97	18.88	20.29	20.60	18.52	19.97	18.88	20.29	20.60
	3H	18.93	20.22	19.31	20.55	20.92	18.93	20.22	19.31	20.55	20.92
	4H	19.22	20.42	19.62	20.77	21.15	19.22	20.42	19.62	20.77	21.15
	6H	19.54	20.64	19.95	21.01	21.41	19.54	20.64	19.95	21.01	21.41
	8H	19.68	20.74	20.11	21.13	21.53	19.68	20.74	20.11	21.13	21.53
	12H	19.81	20.81	20.24	21.20	21.63	19.81	20.81	20.24	21.20	21.63
4H	2H	18.58	19.78	18.98	20.13	20.51	18.58	19.78	18.98	20.13	20.51
	3H	19.19	20.17	19.60	20.58	20.98	19.19	20.17	19.60	20.58	20.98
	4H	19.61	20.49	20.05	20.91	21.35	19.61	20.49	20.05	20.91	21.35
	6H	20.11	20.87	20.57	21.31	21.78	20.11	20.87	20.57	21.31	21.78
	8H	20.33	21.04	20.79	21.49	21.96	20.33	21.04	20.79	21.49	21.96
	12H	20.53	21.16	21.01	21.65	22.12	20.53	21.16	21.01	21.65	22.12
8H	4H	19.76	20.47	20.22	20.92	21.39	19.76	20.47	20.22	20.92	21.39
	6H	20.39	20.98	20.89	21.48	21.96	20.39	20.98	20.89	21.48	21.96
	8H	20.71	21.25	21.22	21.76	22.25	20.71	21.25	21.22	21.76	22.25
	12H	21.02	21.50	21.53	21.99	22.56	21.02	21.50	21.53	21.99	22.56
12H	4H	19.77	20.41	20.26	20.89	21.36	19.77	20.41	20.26	20.89	21.36
	6H	20.44	20.97	20.95	21.49	21.98	20.44	20.97	20.95	21.49	21.98
	8H	20.82	21.30	21.33	21.79	22.36	20.82	21.30	21.33	21.79	22.36