

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: P866935

Luminaire Tested: PRLX-2002-L-927-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866935
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: Prenalux
Catalog Number: PRLX-2002-L-927-133L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

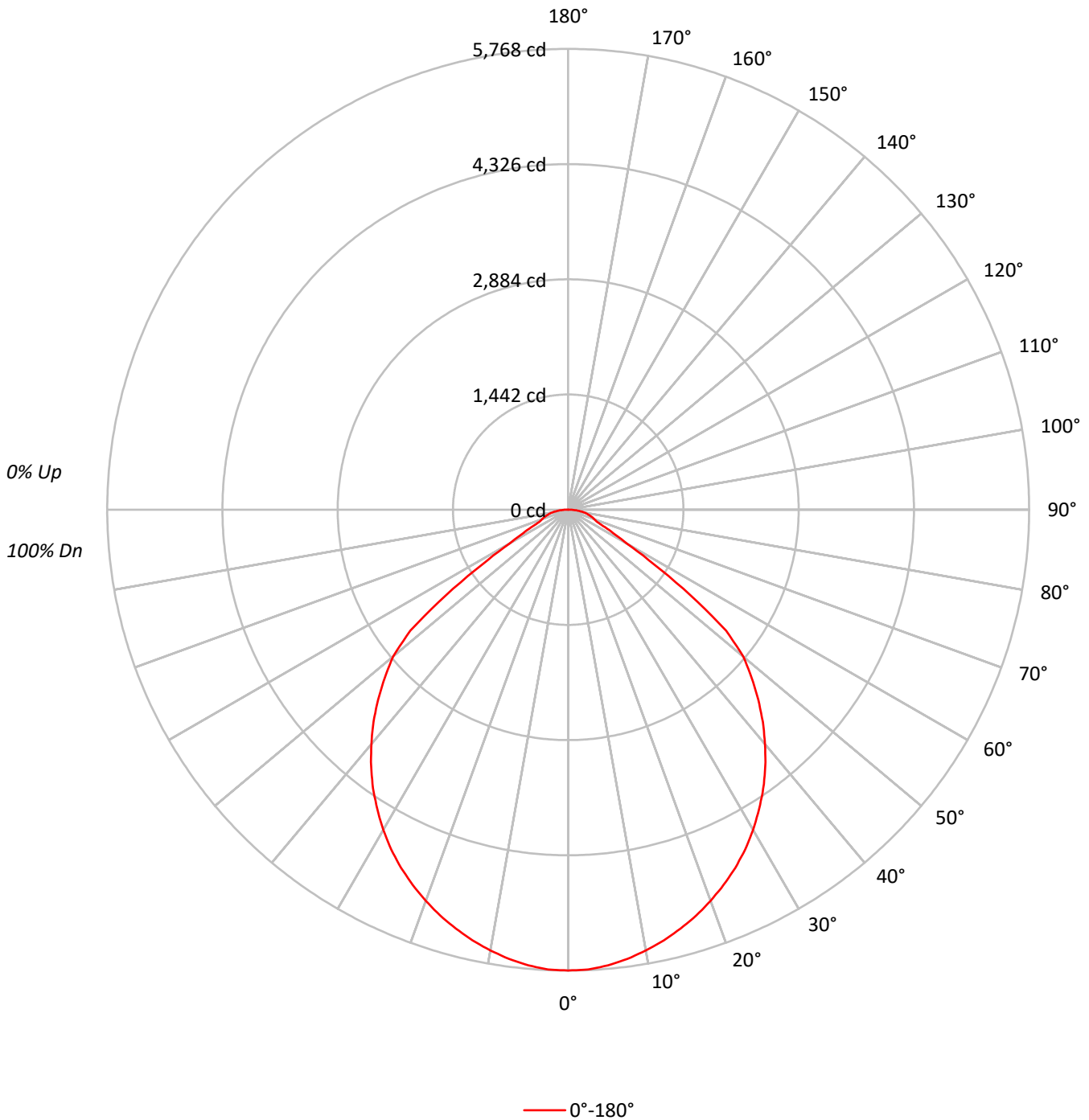
Lumens per Lamp: N/A
Luminaire Lumens: 12184.4 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: P866935

CATALOG NUMBER: PRLX-2002-L-927-133L-L-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866935

CATALOG NUMBER: PRLX-2002-L-927-133L-L-X-X-WHHR-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	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°	28459
5°	28354
10°	28062
15°	27724
20°	27349
25°	26925
30°	26354
35°	25635
40°	24677
45°	23455
50°	21947
55°	16076
60°	8401
65°	5599
70°	5006
75°	5320
80°	5819
85°	6408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23455 cd/sqm

TEST NUMBER: P866935

CATALOG NUMBER: PRLX-2002-L-927-133L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.5	4.5
10°-20°	1530.8	12.6
20°-30°	2276.5	18.7
30°-40°	2657.3	21.8
40°-50°	2588.9	21.2
50°-60°	1658.6	13.6
60°-70°	516.4	4.2
70°-80°	294.2	2.4
80°-90°	119.1	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°	4349.9	35.7
0°-40°	7007.2	57.5
0°-60°	11254.7	92.4
0°-90°	12184.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12184.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5768	
5°	5725	543
15°	5428	1531
25°	4946	2277
35°	4256	2657
45°	3362	2589
55°	1869	1659
65°	480	516
75°	279	294
85°	113	119
90°	0	

TEST NUMBER: P866935

CATALOG NUMBER: PRLX-2002-L-927-133L-L-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	5768.2
2.5°	5759.6
5°	5725.1
7.5°	5671.2
10°	5601.2
12.5°	5522.5
15°	5427.7
17.5°	5326.4
20°	5208.9
22.5°	5082.8
25°	4945.9
27.5°	4795.0
30°	4625.8
32.5°	4445.8
35°	4256.1
37.5°	4051.4
40°	3831.5
42.5°	3604.1
45°	3361.6
47.5°	3113.7
50°	2859.3
52.5°	2488.6
55°	1868.9
57.5°	1265.3
60°	851.4
62.5°	634.8
65°	479.6
67.5°	380.5
70°	347.0
72.5°	315.8
75°	279.1
77.5°	243.6
80°	204.8
82.5°	161.7
85°	113.2
87.5°	60.4
90°	0.0



TEST NUMBER: P866935
 CATALOG NUMBER: PRLX-2002-L-927-133L-L-X-X-WHHR-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	19.18	20.64	19.55	20.95	21.27	19.18	20.64	19.55	20.95	21.27
	3H	19.60	20.89	19.98	21.22	21.58	19.60	20.89	19.98	21.22	21.58
	4H	19.88	21.09	20.29	21.44	21.82	19.88	21.09	20.29	21.44	21.82
	6H	20.20	21.31	20.62	21.68	22.07	20.20	21.31	20.62	21.68	22.07
	8H	20.35	21.40	20.78	21.79	22.19	20.35	21.40	20.78	21.79	22.19
	12H	20.47	21.48	20.91	21.86	22.29	20.47	21.48	20.91	21.86	22.29
4H	2H	19.24	20.45	19.64	20.80	21.18	19.24	20.45	19.64	20.80	21.18
	3H	19.86	20.84	20.27	21.24	21.64	19.86	20.84	20.27	21.24	21.64
	4H	20.28	21.16	20.71	21.58	22.02	20.28	21.16	20.71	21.58	22.02
	6H	20.77	21.54	21.23	21.98	22.44	20.77	21.54	21.23	21.98	22.44
	8H	20.99	21.71	21.46	22.15	22.62	20.99	21.71	21.46	22.15	22.62
	12H	21.20	21.83	21.68	22.31	22.78	21.20	21.83	21.68	22.31	22.78
8H	4H	20.43	21.14	20.89	21.58	22.05	20.43	21.14	20.89	21.58	22.05
	6H	21.06	21.65	21.56	22.14	22.62	21.06	21.65	21.56	22.14	22.62
	8H	21.38	21.91	21.89	22.42	22.91	21.38	21.91	21.89	22.42	22.91
	12H	21.68	22.16	22.20	22.66	23.22	21.68	22.16	22.20	22.66	23.22
12H	4H	20.44	21.08	20.92	21.56	22.03	20.44	21.08	20.92	21.56	22.03
	6H	21.10	21.64	21.62	22.15	22.64	21.10	21.64	21.62	22.15	22.64
	8H	21.49	21.97	22.00	22.46	23.03	21.49	21.97	22.00	22.46	23.03