

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: P867195

Luminaire Tested: PRLX-2004-L-927-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-133L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

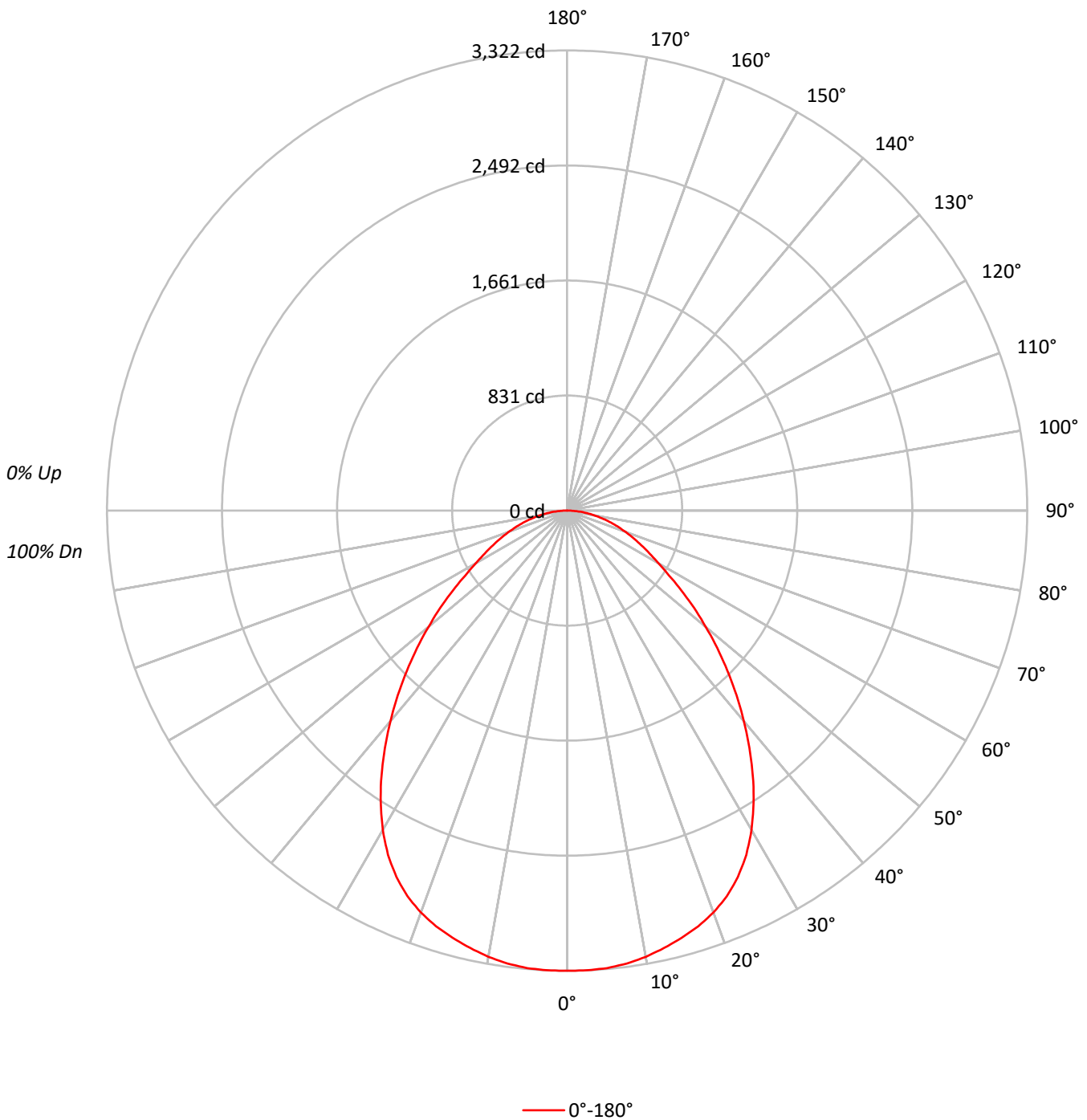
Lumens per Lamp: N/A
Luminaire Lumens: 7211.5 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P867195

CATALOG NUMBER: PRLX-2004-L-927-133L-G-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16389
5°	16419
10°	16387
15°	16311
20°	16212
25°	15882
30°	15166
35°	14080
40°	12780
45°	11408
50°	10027
55°	8659
60°	7508
65°	6895
70°	6437
75°	6041
80°	5697
85°	5367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11408 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	4.4
10°-20°	901.2	12.5
20°-30°	1337.4	18.5
30°-40°	1456.5	20.2
40°-50°	1262.9	17.5
50°-60°	907.5	12.6
60°-70°	588.6	8.2
70°-80°	336.9	4.7
80°-90°	105.6	1.5
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°	2553.6	35.4
0°-40°	4010.1	55.6
0°-60°	6180.5	85.7
0°-90°	7211.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7211.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3322	
5°	3315	315
15°	3193	901
25°	2918	1337
35°	2338	1457
45°	1635	1263
55°	1007	908
65°	591	589
75°	317	337
85°	95	106
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3321.7
2.5°	3321.7
5°	3315.2
7.5°	3298.0
10°	3271.0
12.5°	3234.4
15°	3193.4
17.5°	3146.0
20°	3087.8
22.5°	3013.5
25°	2917.5
27.5°	2801.1
30°	2662.1
32.5°	2505.8
35°	2337.7
37.5°	2160.9
40°	1984.2
42.5°	1809.6
45°	1635.0
47.5°	1470.1
50°	1306.3
52.5°	1155.4
55°	1006.6
57.5°	871.9
60°	760.9
62.5°	670.4
65°	590.6
67.5°	515.2
70°	446.2
72.5°	379.4
75°	316.9
77.5°	257.6
80°	200.5
82.5°	146.6
85°	94.8
87.5°	46.3
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	18.47	19.97	18.83	20.28	20.60	18.47	19.97	18.83	20.28	20.60
	3H	19.98	21.33	20.36	21.65	22.02	19.98	21.33	20.36	21.65	22.02
	4H	20.58	21.84	20.98	22.19	22.57	20.58	21.84	20.98	22.19	22.57
	6H	21.06	22.22	21.47	22.59	22.98	21.06	22.22	21.47	22.59	22.98
	8H	21.23	22.34	21.65	22.73	23.13	21.23	22.34	21.65	22.73	23.13
	12H	21.35	22.41	21.78	22.79	23.22	21.35	22.41	21.78	22.79	23.22
4H	2H	18.97	20.23	19.37	20.58	20.96	18.97	20.23	19.37	20.58	20.96
	3H	20.72	21.77	21.13	22.17	22.57	20.72	21.77	21.13	22.17	22.57
	4H	21.46	22.40	21.89	22.82	23.26	21.46	22.40	21.89	22.82	23.26
	6H	22.07	22.90	22.53	23.34	23.80	22.07	22.90	22.53	23.34	23.80
	8H	22.30	23.07	22.76	23.51	23.98	22.30	23.07	22.76	23.51	23.98
	12H	22.47	23.16	22.95	23.64	24.11	22.47	23.16	22.95	23.64	24.11
8H	4H	21.73	22.50	22.20	22.95	23.41	21.73	22.50	22.20	22.95	23.41
	6H	22.48	23.12	22.98	23.61	24.09	22.48	23.12	22.98	23.61	24.09
	8H	22.79	23.36	23.30	23.87	24.36	22.79	23.36	23.30	23.87	24.36
	12H	23.05	23.56	23.56	24.05	24.61	23.05	23.56	23.56	24.05	24.61
12H	4H	21.76	22.45	22.24	22.93	23.40	21.76	22.45	22.24	22.93	23.40
	6H	22.54	23.11	23.05	23.62	24.11	22.54	23.11	23.05	23.62	24.11
	8H	22.91	23.41	23.42	23.90	24.47	22.91	23.41	23.42	23.90	24.47