

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: P867127

Luminaire Tested: PRLX-2002-L-940-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867127
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-940-133L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

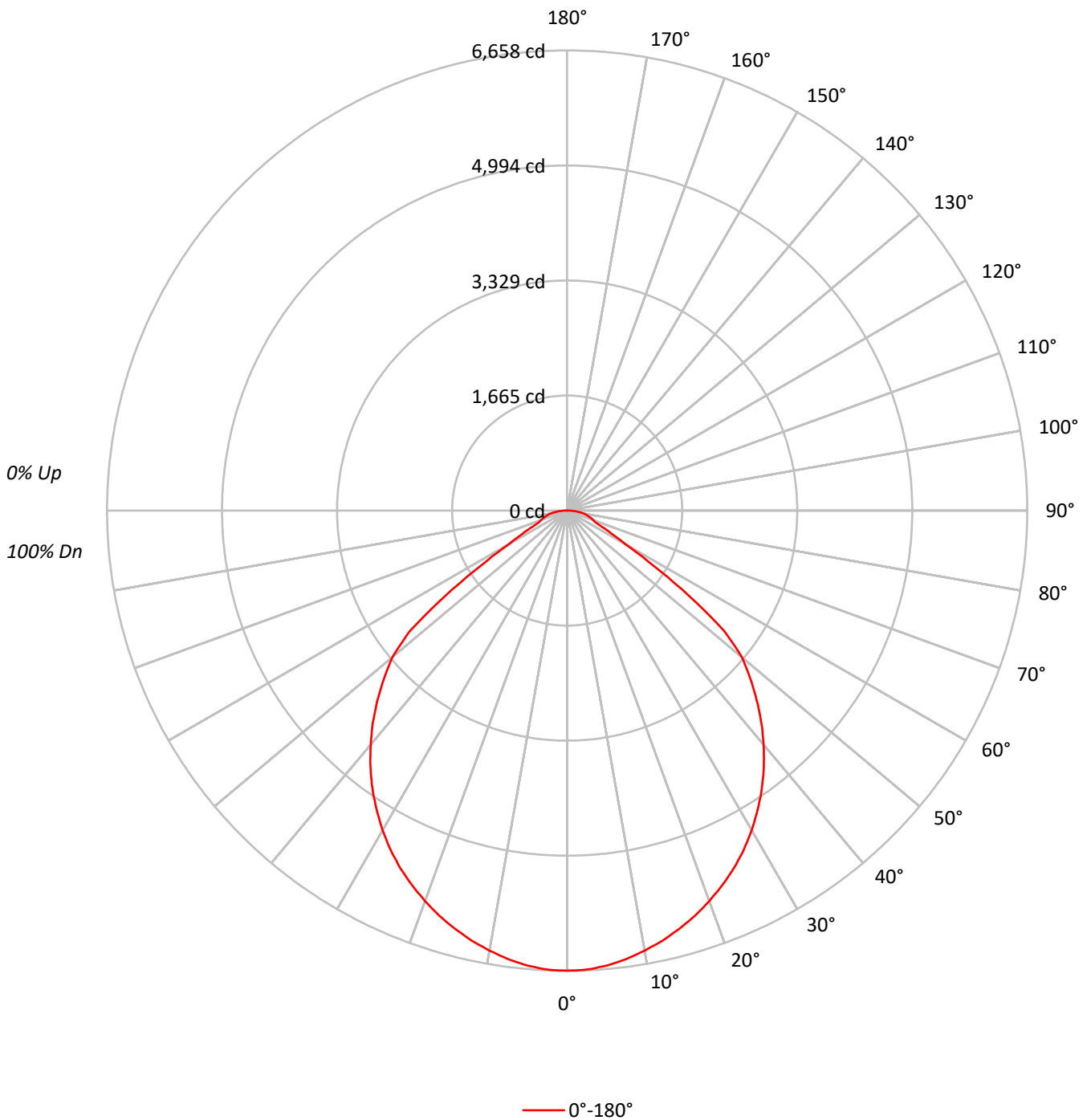
Lumens per Lamp: N/A
Luminaire Lumens: 14062.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (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: P867127

CATALOG NUMBER: PRLX-2002-L-940-133L-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°	32847
5°	32726
10°	32388
15°	31998
20°	31565
25°	31076
30°	30416
35°	29587
40°	28481
45°	27071
50°	25330
55°	18554
60°	9697
65°	6462
70°	5777
75°	6142
80°	6714
85°	7393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27071 cd/sqm

TEST NUMBER: P867127

CATALOG NUMBER: PRLX-2002-L-940-133L-L-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.2	4.5
10°-20°	1766.8	12.6
20°-30°	2627.5	18.7
30°-40°	3067.0	21.8
40°-50°	2988.0	21.2
50°-60°	1914.3	13.6
60°-70°	596.0	4.2
70°-80°	339.5	2.4
80°-90°	137.5	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°	5020.4	35.7
0°-40°	8087.4	57.5
0°-60°	12989.6	92.4
0°-90°	14062.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14062.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6658	
5°	6608	626
15°	6264	1767
25°	5708	2627
35°	4912	3067
45°	3880	2988
55°	2157	1914
65°	554	596
75°	322	340
85°	131	137
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6657.5
2.5°	6647.5
5°	6607.7
7.5°	6545.5
10°	6464.7
12.5°	6373.8
15°	6264.4
17.5°	6147.5
20°	6011.9
22.5°	5866.3
25°	5708.4
27.5°	5534.2
30°	5338.9
32.5°	5131.2
35°	4912.2
37.5°	4675.9
40°	4422.1
42.5°	4159.7
45°	3879.8
47.5°	3593.7
50°	3300.1
52.5°	2872.2
55°	2157.0
57.5°	1460.4
60°	982.7
62.5°	732.7
65°	553.5
67.5°	439.1
70°	400.5
72.5°	364.5
75°	322.2
77.5°	281.1
80°	236.3
82.5°	186.6
85°	130.6
87.5°	69.7
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	19.68	21.14	20.05	21.45	21.76	19.68	21.14	20.05	21.45	21.76
	3H	20.10	21.39	20.48	21.72	22.08	20.10	21.39	20.48	21.72	22.08
	4H	20.38	21.59	20.78	21.94	22.32	20.38	21.59	20.78	21.94	22.32
	6H	20.70	21.81	21.12	22.18	22.57	20.70	21.81	21.12	22.18	22.57
	8H	20.85	21.90	21.28	22.29	22.69	20.85	21.90	21.28	22.29	22.69
	12H	20.97	21.98	21.40	22.36	22.79	20.97	21.98	21.40	22.36	22.79
4H	2H	19.74	20.94	20.14	21.29	21.67	19.74	20.94	20.14	21.29	21.67
	3H	20.36	21.34	20.77	21.74	22.14	20.36	21.34	20.77	21.74	22.14
	4H	20.78	21.66	21.21	22.08	22.52	20.78	21.66	21.21	22.08	22.52
	6H	21.27	22.03	21.73	22.48	22.94	21.27	22.03	21.73	22.48	22.94
	8H	21.49	22.21	21.96	22.65	23.12	21.49	22.21	21.96	22.65	23.12
	12H	21.69	22.33	22.18	22.81	23.28	21.69	22.33	22.18	22.81	23.28
8H	4H	20.92	21.64	21.39	22.08	22.55	20.92	21.64	21.39	22.08	22.55
	6H	21.56	22.15	22.05	22.64	23.12	21.56	22.15	22.05	22.64	23.12
	8H	21.87	22.41	22.39	22.92	23.41	21.87	22.41	22.39	22.92	23.41
	12H	22.18	22.66	22.69	23.16	23.72	22.18	22.66	22.69	23.16	23.72
12H	4H	20.94	21.57	21.42	22.06	22.53	20.94	21.57	21.42	22.06	22.53
	6H	21.60	22.14	22.12	22.65	23.14	21.60	22.14	22.12	22.65	23.14
	8H	21.99	22.47	22.50	22.96	23.53	21.99	22.47	22.50	22.96	23.53