

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: P867387

Luminaire Tested: PRLX-2004-L-940-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867387
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-940-133L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

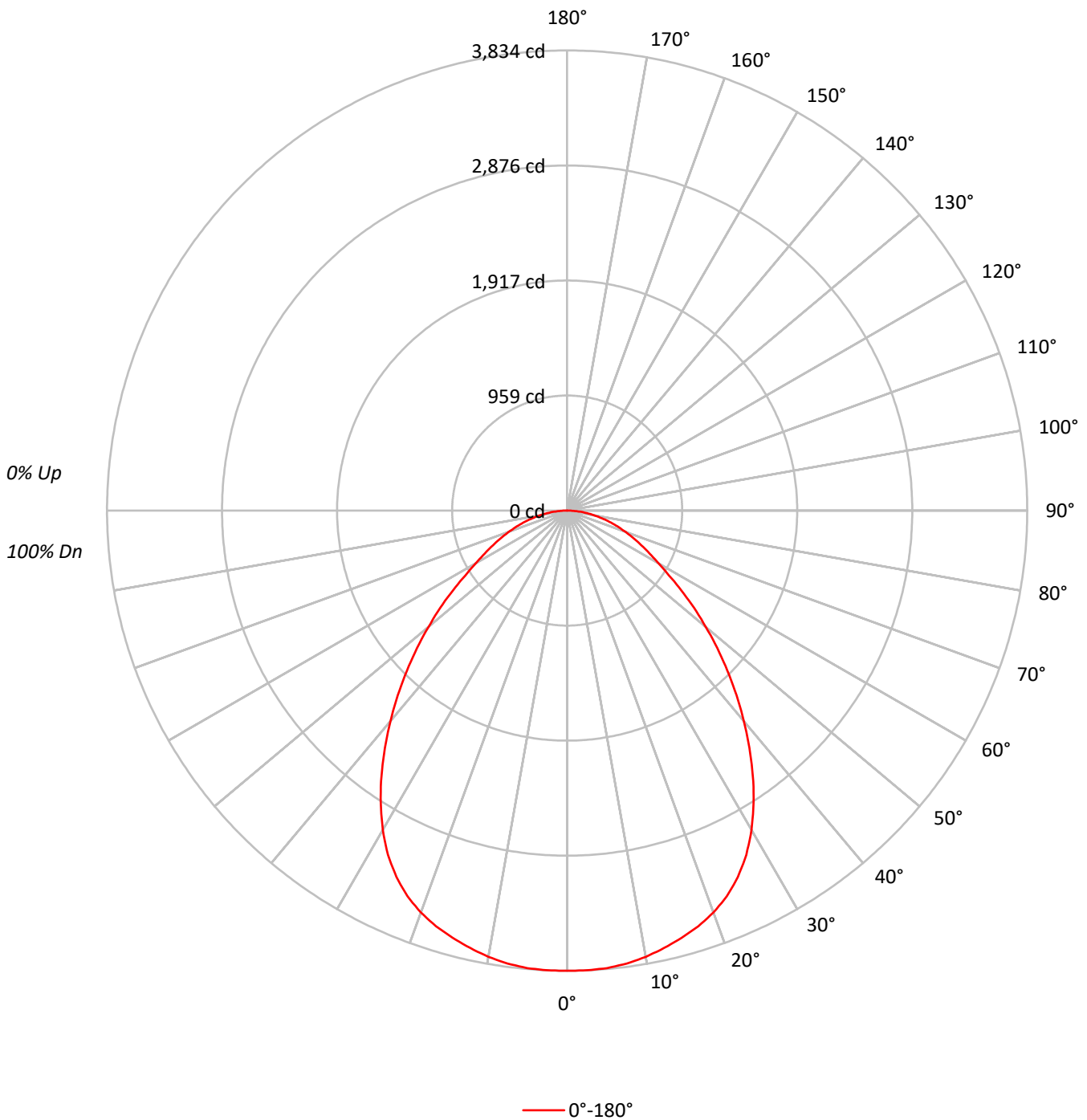
Lumens per Lamp: N/A
Luminaire Lumens: 8323.3 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: P867387

CATALOG NUMBER: PRLX-2004-L-940-133L-G-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P867387

CATALOG NUMBER: PRLX-2004-L-940-133L-G-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	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°	18915
5°	18950
10°	18914
15°	18826
20°	18712
25°	18331
30°	17504
35°	16251
40°	14750
45°	13166
50°	11572
55°	9994
60°	8666
65°	7958
70°	7429
75°	6971
80°	6575
85°	6199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13166 cd/sqm

TEST NUMBER: P867387

CATALOG NUMBER: PRLX-2004-L-940-133L-G-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	4.4
10°-20°	1040.1	12.5
20°-30°	1543.5	18.5
30°-40°	1681.1	20.2
40°-50°	1457.6	17.5
50°-60°	1047.4	12.6
60°-70°	679.3	8.2
70°-80°	388.8	4.7
80°-90°	121.9	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°	2947.2	35.4
0°-40°	4628.3	55.6
0°-60°	7133.3	85.7
0°-90°	8323.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8323.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3834	
5°	3826	364
15°	3686	1040
25°	3367	1544
35°	2698	1681
45°	1887	1458
55°	1162	1047
65°	682	679
75°	366	389
85°	110	122
90°	0	

TEST NUMBER: P867387

CATALOG NUMBER: PRLX-2004-L-940-133L-G-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3833.8
2.5°	3833.8
5°	3826.3
7.5°	3806.4
10°	3775.3
12.5°	3733.0
15°	3685.7
17.5°	3631.0
20°	3563.8
22.5°	3478.0
25°	3367.3
27.5°	3233.0
30°	3072.5
32.5°	2892.1
35°	2698.1
37.5°	2494.1
40°	2290.1
42.5°	2088.5
45°	1887.0
47.5°	1696.7
50°	1507.6
52.5°	1333.5
55°	1161.8
57.5°	1006.3
60°	878.2
62.5°	773.7
65°	681.7
67.5°	594.6
70°	515.0
72.5°	437.9
75°	365.7
77.5°	297.3
80°	231.4
82.5°	169.2
85°	109.5
87.5°	53.5
90°	0.0



TEST NUMBER: P867387
 CATALOG NUMBER: PRLX-2004-L-940-133L-G-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	18.97	20.47	19.33	20.78	21.09	18.97	20.47	19.33	20.78	21.09
	3H	20.48	21.82	20.86	22.15	22.51	20.48	21.82	20.86	22.15	22.51
	4H	21.08	22.34	21.48	22.69	23.07	21.08	22.34	21.48	22.69	23.07
	6H	21.56	22.72	21.97	23.09	23.48	21.56	22.72	21.97	23.09	23.48
	8H	21.73	22.84	22.15	23.23	23.63	21.73	22.84	22.15	23.23	23.63
	12H	21.85	22.91	22.28	23.29	23.72	21.85	22.91	22.28	23.29	23.72
4H	2H	19.47	20.73	19.87	21.08	21.46	19.47	20.73	19.87	21.08	21.46
	3H	21.22	22.27	21.63	22.67	23.07	21.22	22.27	21.63	22.67	23.07
	4H	21.96	22.90	22.39	23.32	23.75	21.96	22.90	22.39	23.32	23.75
	6H	22.57	23.39	23.03	23.84	24.30	22.57	23.39	23.03	23.84	24.30
	8H	22.80	23.56	23.26	24.01	24.48	22.80	23.56	23.26	24.01	24.48
	12H	22.97	23.66	23.45	24.13	24.61	22.97	23.66	23.45	24.13	24.61
8H	4H	22.23	23.00	22.70	23.44	23.91	22.23	23.00	22.70	23.44	23.91
	6H	22.98	23.62	23.48	24.11	24.59	22.98	23.62	23.48	24.11	24.59
	8H	23.29	23.86	23.80	24.37	24.86	23.29	23.86	23.80	24.37	24.86
	12H	23.55	24.05	24.06	24.55	25.11	23.55	24.05	24.06	24.55	25.11
12H	4H	22.26	22.95	22.74	23.42	23.90	22.26	22.95	22.74	23.42	23.90
	6H	23.04	23.61	23.55	24.12	24.61	23.04	23.61	23.55	24.12	24.61
	8H	23.40	23.91	23.91	24.40	24.97	23.40	23.91	23.91	24.40	24.97