

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: P867366

Luminaire Tested: PRLX-2004-L-940-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-100L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

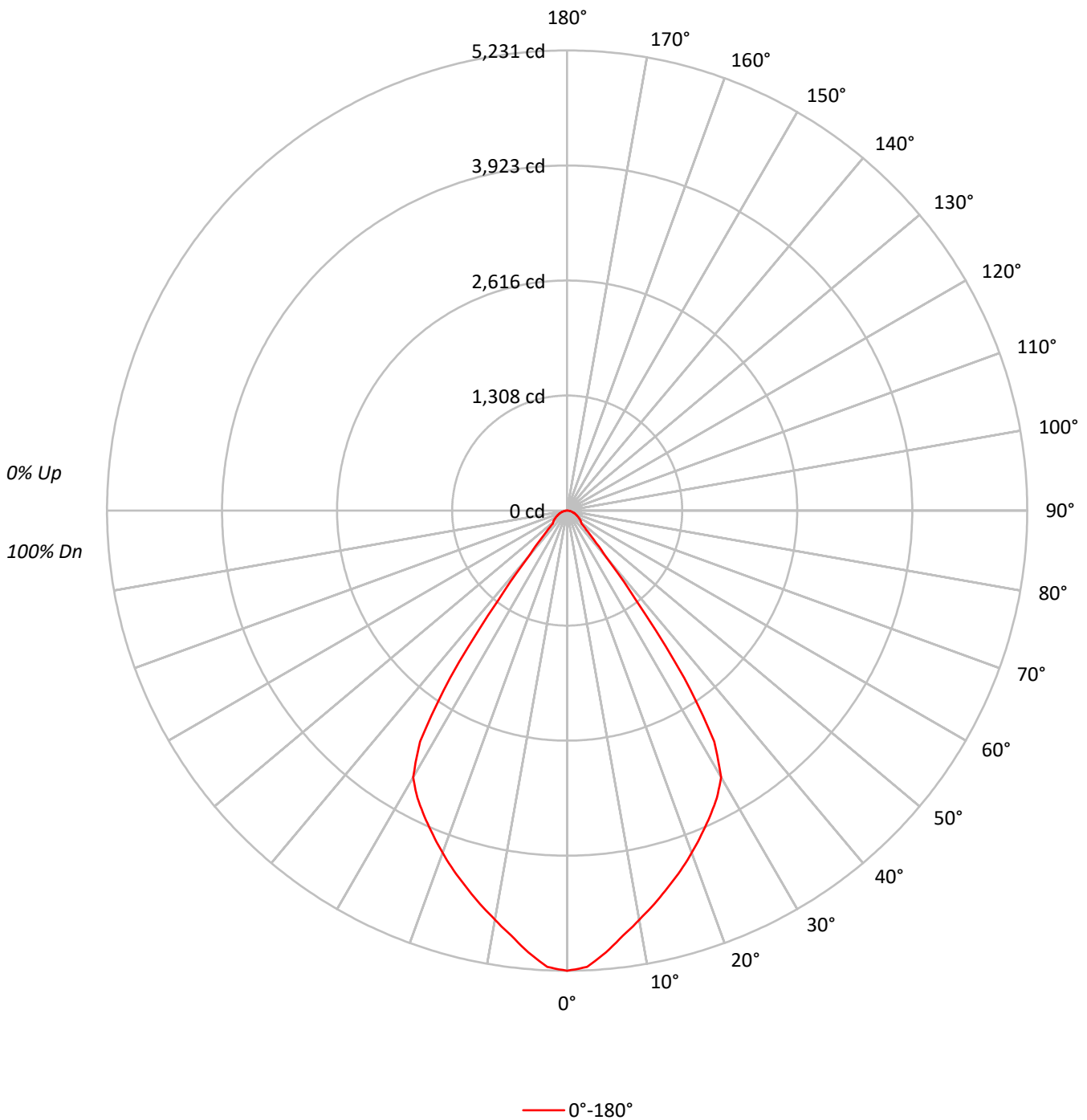
Lumens per Lamp: N/A
Luminaire Lumens: 5455.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25811
5°	24971
10°	23664
15°	22637
20°	21737
25°	20890
30°	19947
35°	13973
40°	4396
45°	2132
50°	1590
55°	1534
60°	1430
65°	1323
70°	1232
75°	1151
80°	1083
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2132 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.0	8.6
10°-20°	1248.3	22.9
20°-30°	1765.6	32.4
30°-40°	1344.5	24.6
40°-50°	270.3	5.0
50°-60°	158.5	2.9
60°-70°	112.8	2.1
70°-80°	64.3	1.2
80°-90°	19.8	0.4
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°	3484.9	63.9
0°-40°	4829.3	88.5
0°-60°	5258.1	96.4
0°-90°	5455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5231	
5°	5042	471
15°	4432	1248
25°	3837	1766
35°	2320	1344
45°	306	270
55°	178	158
65°	113	113
75°	60	64
85°	18	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5231.4
2.5°	5192.4
5°	5041.9
7.5°	4872.9
10°	4723.4
12.5°	4579.4
15°	4431.8
17.5°	4290.6
20°	4140.1
22.5°	3987.8
25°	3837.4
27.5°	3685.1
30°	3501.2
32.5°	3112.1
35°	2319.9
37.5°	1282.5
40°	682.6
42.5°	451.3
45°	305.5
47.5°	220.1
50°	207.1
52.5°	194.1
55°	178.3
57.5°	160.7
60°	144.9
62.5°	128.2
65°	113.3
67.5°	99.4
70°	85.4
72.5°	72.4
75°	60.4
77.5°	49.2
80°	38.1
82.5°	27.9
85°	17.6
87.5°	8.4
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	8.27	9.32	8.63	9.63	9.95	8.27	9.32	8.63	9.63	9.95
	3H	9.83	10.76	10.21	11.09	11.46	9.83	10.76	10.21	11.09	11.46
	4H	10.42	11.28	10.83	11.64	12.03	10.42	11.28	10.83	11.64	12.03
	6H	10.88	11.67	11.30	12.04	12.44	10.88	11.67	11.30	12.04	12.44
	8H	11.03	11.78	11.47	12.17	12.58	11.03	11.78	11.47	12.17	12.58
	12H	11.13	11.84	11.57	12.23	12.66	11.13	11.84	11.57	12.23	12.66
4H	2H	8.73	9.59	9.14	9.95	10.34	8.73	9.59	9.14	9.95	10.34
	3H	10.50	11.21	10.92	11.62	12.02	10.50	11.21	10.92	11.62	12.02
	4H	11.22	11.85	11.66	12.27	12.72	11.22	11.85	11.66	12.27	12.72
	6H	11.81	12.35	12.28	12.80	13.27	11.81	12.35	12.28	12.80	13.27
	8H	12.01	12.51	12.48	12.96	13.44	12.01	12.51	12.48	12.96	13.44
	12H	12.15	12.59	12.64	13.08	13.56	12.15	12.59	12.64	13.08	13.56
8H	4H	11.44	11.94	11.92	12.39	12.87	11.44	11.94	11.92	12.39	12.87
	6H	12.17	12.57	12.67	13.07	13.56	12.17	12.57	12.67	13.07	13.56
	8H	12.46	12.81	12.99	13.33	13.83	12.46	12.81	12.99	13.33	13.83
	12H	12.69	13.00	13.21	13.50	14.08	12.69	13.00	13.21	13.50	14.08
12H	4H	11.44	11.88	11.93	12.37	12.84	11.44	11.88	11.93	12.37	12.84
	6H	12.20	12.56	12.74	13.08	13.58	12.20	12.56	12.74	13.08	13.58
	8H	12.56	12.86	13.08	13.36	13.94	12.56	12.86	13.08	13.36	13.94