

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: P867367

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

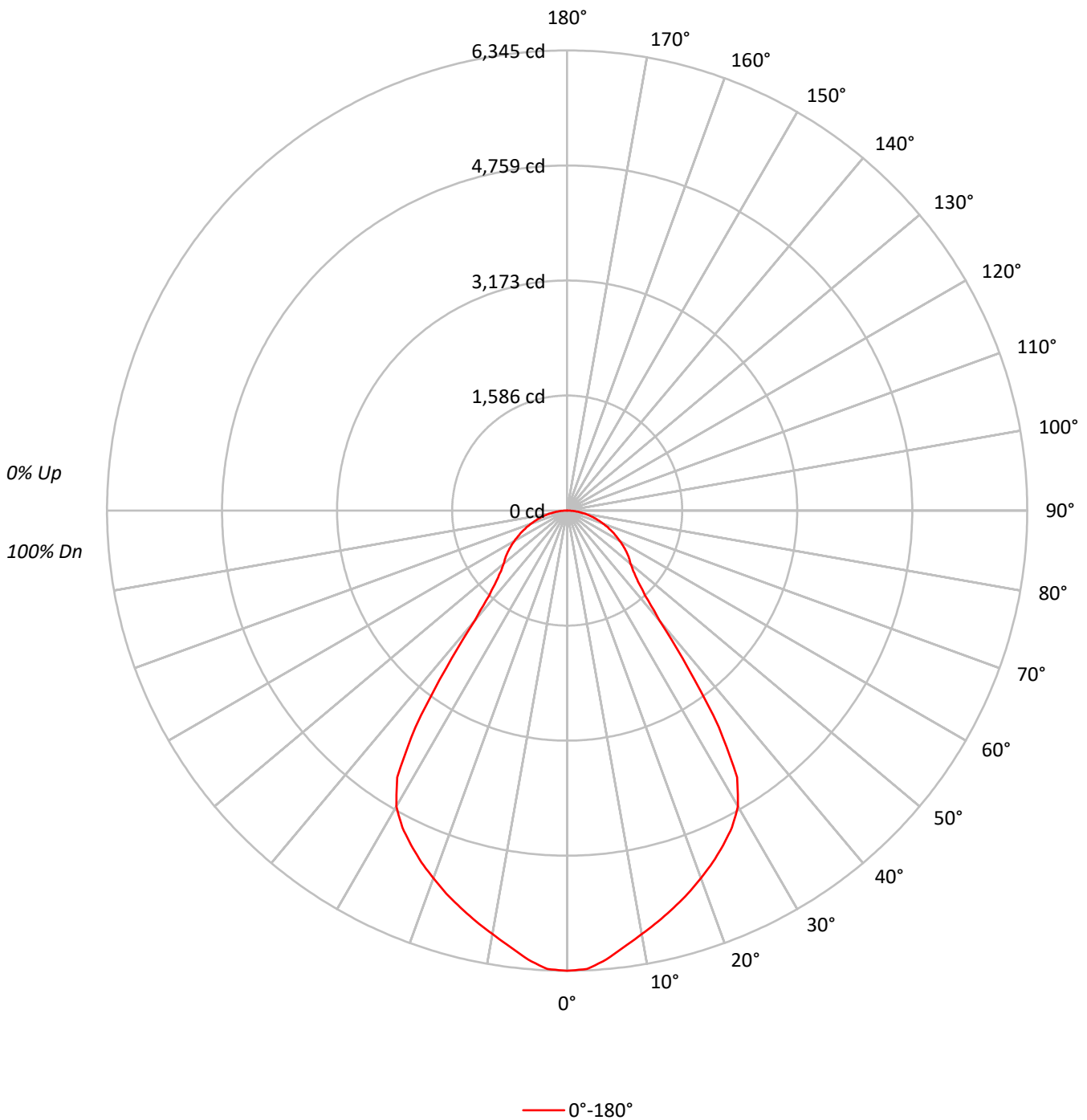
Lumens per Lamp: N/A
Luminaire Lumens: 9919.7 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.5 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31305
5°	30775
10°	29707
15°	28965
20°	28320
25°	27710
30°	26836
35°	21972
40°	12758
45°	9648
50°	8768
55°	8620
60°	8312
65°	7979
70°	7663
75°	7330
80°	7018
85°	6731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.6	5.9
10°-20°	1599.0	16.1
20°-30°	2341.6	23.6
30°-40°	2177.2	21.9
40°-50°	1109.2	11.2
50°-60°	892.3	9.0
60°-70°	677.5	6.8
70°-80°	408.1	4.1
80°-90°	131.2	1.3
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°	4524.2	45.6
0°-40°	6701.4	67.6
0°-60°	8702.9	87.7
0°-90°	9919.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9919.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6345	
5°	6214	584
15°	5671	1599
25°	5090	2342
35°	3648	2177
45°	1383	1109
55°	1002	892
65°	684	678
75°	384	408
85°	119	131
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	6344.9
2.5°	6326.3
5°	6213.9
7.5°	6063.5
10°	5929.7
12.5°	5802.5
15°	5670.6
17.5°	5536.9
20°	5393.9
22.5°	5249.0
25°	5090.2
27.5°	4923.0
30°	4710.4
32.5°	4360.2
35°	3647.9
37.5°	2737.8
40°	1980.9
42.5°	1592.7
45°	1382.8
47.5°	1235.2
50°	1142.3
52.5°	1075.4
55°	1002.1
57.5°	920.3
60°	842.3
62.5°	761.5
65°	683.5
67.5°	606.4
70°	531.2
72.5°	457.8
75°	384.5
77.5°	315.8
80°	247.0
82.5°	183.0
85°	118.9
87.5°	56.7
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	17.94	19.30	18.31	19.61	19.93	17.94	19.30	18.31	19.61	19.93
	3H	19.74	20.96	20.12	21.29	21.65	19.74	20.96	20.12	21.29	21.65
	4H	20.45	21.59	20.85	21.94	22.32	20.45	21.59	20.85	21.94	22.32
	6H	21.01	22.06	21.42	22.43	22.82	21.01	22.06	21.42	22.43	22.82
	8H	21.21	22.21	21.64	22.60	23.00	21.21	22.21	21.64	22.60	23.00
	12H	21.36	22.31	21.79	22.69	23.12	21.36	22.31	21.79	22.69	23.12
4H	2H	18.53	19.67	18.93	20.02	20.40	18.53	19.67	18.93	20.02	20.40
	3H	20.55	21.50	20.96	21.90	22.30	20.55	21.50	20.96	21.90	22.30
	4H	21.39	22.24	21.83	22.66	23.10	21.39	22.24	21.83	22.66	23.10
	6H	22.09	22.83	22.55	23.27	23.74	22.09	22.83	22.55	23.27	23.74
	8H	22.35	23.04	22.81	23.48	23.95	22.35	23.04	22.81	23.48	23.95
	12H	22.54	23.16	23.03	23.64	24.11	22.54	23.16	23.03	23.64	24.11
8H	4H	21.70	22.39	22.16	22.83	23.30	21.70	22.39	22.16	22.83	23.30
	6H	22.54	23.11	23.04	23.60	24.08	22.54	23.11	23.04	23.60	24.08
	8H	22.89	23.39	23.41	23.91	24.40	22.89	23.39	23.41	23.91	24.40
	12H	23.18	23.63	23.70	24.12	24.69	23.18	23.63	23.70	24.12	24.69
12H	4H	21.73	22.34	22.21	22.82	23.29	21.73	22.34	22.21	22.82	23.29
	6H	22.60	23.11	23.12	23.62	24.11	22.60	23.11	23.12	23.62	24.11
	8H	23.02	23.46	23.53	23.96	24.52	23.02	23.46	23.53	23.96	24.52