

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: P867183

Luminaire Tested: PRLX-2004-L-927-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867183
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-927-117L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

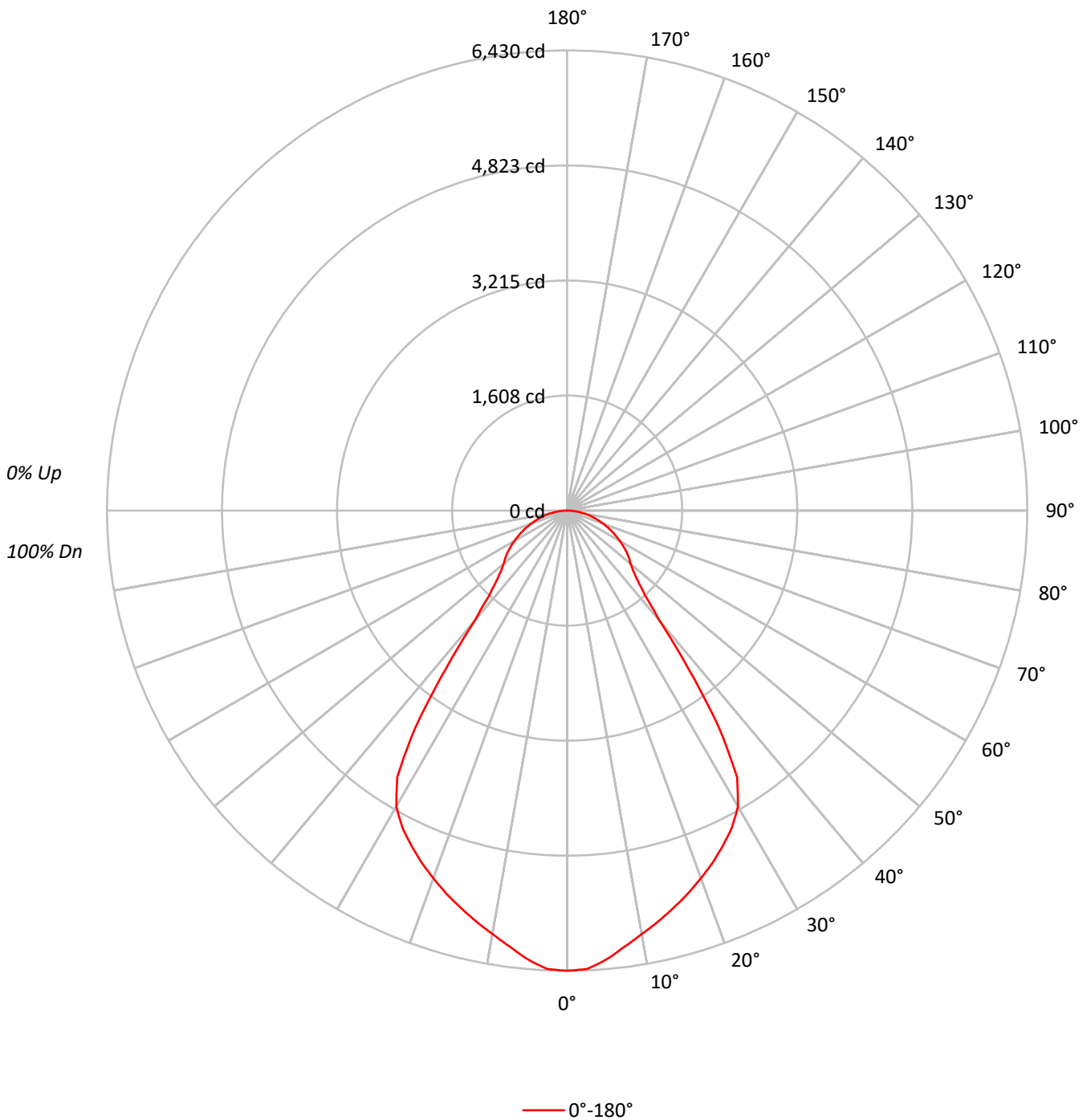
Lumens per Lamp: N/A
Luminaire Lumens: 10053.4 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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

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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°	31726
5°	31190
10°	30108
15°	29355
20°	28702
25°	28084
30°	27197
35°	22268
40°	12930
45°	9779
50°	8886
55°	8736
60°	8424
65°	8087
70°	7767
75°	7429
80°	7115
85°	6821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.4	5.9
10°-20°	1620.5	16.1
20°-30°	2373.2	23.6
30°-40°	2206.5	21.9
40°-50°	1124.2	11.2
50°-60°	904.4	9.0
60°-70°	686.7	6.8
70°-80°	413.6	4.1
80°-90°	132.9	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°	4585.1	45.6
0°-40°	6791.7	67.6
0°-60°	8820.2	87.7
0°-90°	10053.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10053.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6430	
5°	6298	591
15°	5747	1621
25°	5159	2373
35°	3697	2207
45°	1402	1124
55°	1016	904
65°	693	687
75°	390	414
85°	120	133
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6430.4
2.5°	6411.6
5°	6297.7
7.5°	6145.2
10°	6009.7
12.5°	5880.7
15°	5747.1
17.5°	5611.5
20°	5466.6
22.5°	5319.7
25°	5158.8
27.5°	4989.4
30°	4773.8
32.5°	4419.0
35°	3697.1
37.5°	2774.7
40°	2007.6
42.5°	1614.2
45°	1401.5
47.5°	1251.8
50°	1157.7
52.5°	1089.9
55°	1015.6
57.5°	932.7
60°	853.7
62.5°	771.8
65°	692.7
67.5°	614.6
70°	538.4
72.5°	464.0
75°	389.7
77.5°	320.0
80°	250.4
82.5°	185.4
85°	120.5
87.5°	57.4
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	17.99	19.34	18.36	19.66	19.97	17.99	19.34	18.36	19.66	19.97
	3H	19.79	21.00	20.17	21.33	21.70	19.79	21.00	20.17	21.33	21.70
	4H	20.50	21.63	20.90	21.98	22.37	20.50	21.63	20.90	21.98	22.37
	6H	21.06	22.10	21.47	22.47	22.87	21.06	22.10	21.47	22.47	22.87
	8H	21.26	22.25	21.69	22.64	23.05	21.26	22.25	21.69	22.64	23.05
	12H	21.40	22.35	21.83	22.74	23.17	21.40	22.35	21.83	22.74	23.17
4H	2H	18.58	19.71	18.98	20.06	20.45	18.58	19.71	18.98	20.06	20.45
	3H	20.60	21.54	21.01	21.95	22.35	20.60	21.54	21.01	21.95	22.35
	4H	21.44	22.29	21.87	22.71	23.15	21.44	22.29	21.87	22.71	23.15
	6H	22.14	22.88	22.60	23.32	23.78	22.14	22.88	22.60	23.32	23.78
	8H	22.39	23.08	22.86	23.53	24.00	22.39	23.08	22.86	23.53	24.00
	12H	22.59	23.20	23.07	23.68	24.16	22.59	23.20	23.07	23.68	24.16
8H	4H	21.74	22.43	22.21	22.88	23.35	21.74	22.43	22.21	22.88	23.35
	6H	22.59	23.15	23.09	23.65	24.13	22.59	23.15	23.09	23.65	24.13
	8H	22.93	23.44	23.45	23.95	24.44	22.93	23.44	23.45	23.95	24.44
	12H	23.23	23.67	23.74	24.17	24.74	23.23	23.67	23.74	24.17	24.74
12H	4H	21.77	22.38	22.26	22.87	23.34	21.77	22.38	22.26	22.87	23.34
	6H	22.65	23.16	23.17	23.67	24.16	22.65	23.16	23.17	23.67	24.16
	8H	23.06	23.51	23.58	24.00	24.57	23.06	23.51	23.58	24.00	24.57