

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: P867231

Luminaire Tested: PRLX-2004-L-927-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867231
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-927-83L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

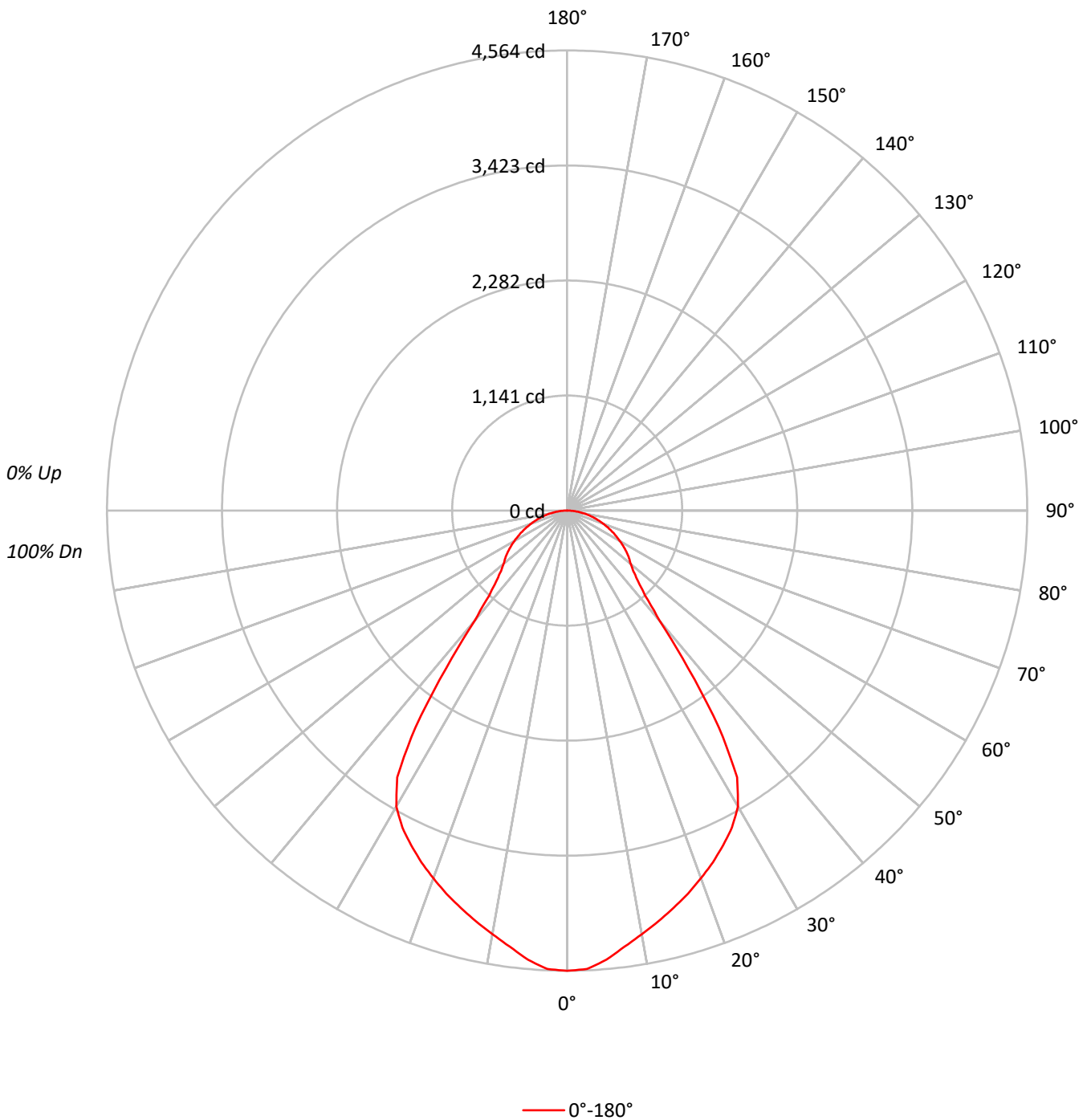
Lumens per Lamp: N/A
Luminaire Lumens: 7136.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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°	22520
5°	22139
10°	21371
15°	20837
20°	20373
25°	19934
30°	19305
35°	15806
40°	9178
45°	6941
50°	6308
55°	6201
60°	5980
65°	5740
70°	5513
75°	5273
80°	5049
85°	4840

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	5.9
10°-20°	1150.3	16.1
20°-30°	1684.5	23.6
30°-40°	1566.2	21.9
40°-50°	798.0	11.2
50°-60°	642.0	9.0
60°-70°	487.4	6.8
70°-80°	293.6	4.1
80°-90°	94.3	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°	3254.6	45.6
0°-40°	4820.9	67.6
0°-60°	6260.8	87.7
0°-90°	7136.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7136.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4564	
5°	4470	420
15°	4079	1150
25°	3662	1685
35°	2624	1566
45°	995	798
55°	721	642
65°	492	487
75°	277	294
85°	86	94
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4564.4
2.5°	4551.1
5°	4470.2
7.5°	4362.0
10°	4265.8
12.5°	4174.3
15°	4079.4
17.5°	3983.2
20°	3880.3
22.5°	3776.1
25°	3661.8
27.5°	3541.6
30°	3388.6
32.5°	3136.7
35°	2624.3
37.5°	1969.5
40°	1425.0
42.5°	1145.8
45°	994.8
47.5°	888.6
50°	821.8
52.5°	773.7
55°	720.9
57.5°	662.1
60°	606.0
62.5°	547.8
65°	491.7
67.5°	436.3
70°	382.2
72.5°	329.4
75°	276.6
77.5°	227.2
80°	177.7
82.5°	131.6
85°	85.5
87.5°	40.8
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	16.80	18.15	17.17	18.47	18.78	16.80	18.15	17.17	18.47	18.78
	3H	18.60	19.81	18.98	20.14	20.51	18.60	19.81	18.98	20.14	20.51
	4H	19.31	20.44	19.71	20.79	21.17	19.31	20.44	19.71	20.79	21.17
	6H	19.87	20.91	20.28	21.28	21.68	19.87	20.91	20.28	21.28	21.68
	8H	20.07	21.06	20.50	21.45	21.86	20.07	21.06	20.50	21.45	21.86
	12H	20.21	21.16	20.64	21.55	21.98	20.21	21.16	20.64	21.55	21.98
4H	2H	17.39	18.52	17.79	18.87	19.26	17.39	18.52	17.79	18.87	19.26
	3H	19.41	20.35	19.82	20.76	21.16	19.41	20.35	19.82	20.76	21.16
	4H	20.25	21.10	20.68	21.52	21.96	20.25	21.10	20.68	21.52	21.96
	6H	20.95	21.69	21.41	22.13	22.59	20.95	21.69	21.41	22.13	22.59
	8H	21.20	21.89	21.67	22.34	22.81	21.20	21.89	21.67	22.34	22.81
	12H	21.40	22.01	21.88	22.49	22.97	21.40	22.01	21.88	22.49	22.97
8H	4H	20.55	21.24	21.02	21.69	22.16	20.55	21.24	21.02	21.69	22.16
	6H	21.40	21.96	21.90	22.46	22.94	21.40	21.96	21.90	22.46	22.94
	8H	21.74	22.25	22.26	22.76	23.25	21.74	22.25	22.26	22.76	23.25
	12H	22.04	22.48	22.55	22.98	23.54	22.04	22.48	22.55	22.98	23.54
12H	4H	20.58	21.19	21.07	21.68	22.15	20.58	21.19	21.07	21.68	22.15
	6H	21.46	21.97	21.98	22.48	22.97	21.46	21.97	21.98	22.48	22.97
	8H	21.87	22.32	22.39	22.81	23.38	21.87	22.32	22.39	22.81	23.38