

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: P867319

Luminaire Tested: PRLX-2004-L-935-133L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867319
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-935-133L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

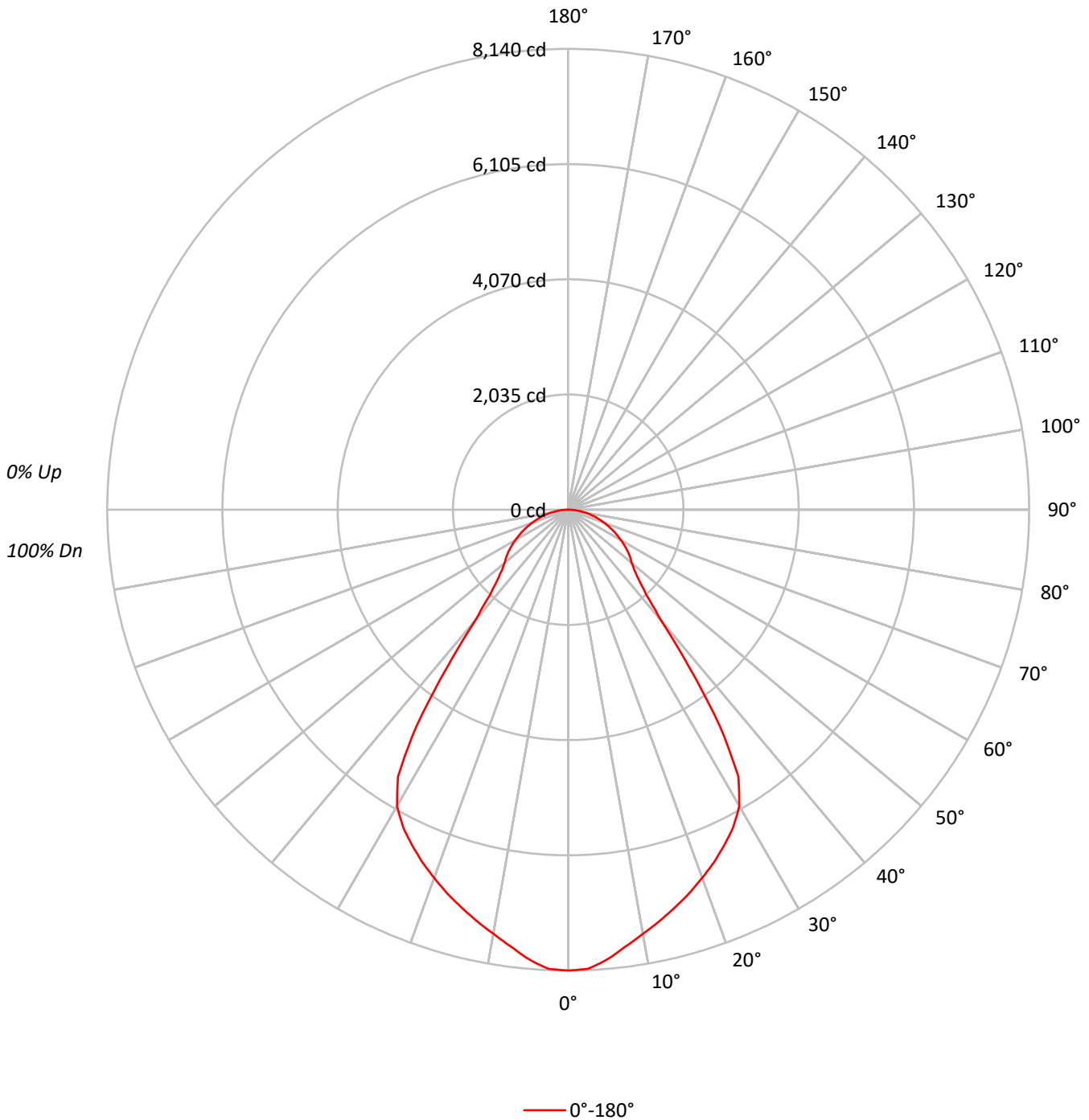
Lumens per Lamp: N/A
Luminaire Lumens: 12727.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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°	40164
5°	39485
10°	38115
15°	37162
20°	36335
25°	35552
30°	34430
35°	28190
40°	16369
45°	12379
50°	11249
55°	11059
60°	10664
65°	10238
70°	9832
75°	9404
80°	9004
85°	8633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.7	5.9
10°-20°	2051.5	16.1
20°-30°	3004.3	23.6
30°-40°	2793.3	21.9
40°-50°	1423.1	11.2
50°-60°	1144.9	9.0
60°-70°	869.3	6.8
70°-80°	523.6	4.1
80°-90°	168.2	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°	5804.5	45.6
0°-40°	8597.9	67.6
0°-60°	11165.9	87.7
0°-90°	12727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12727.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8140	
5°	7972	749
15°	7275	2051
25°	6531	3004
35°	4680	2793
45°	1774	1423
55°	1286	1145
65°	877	869
75°	493	524
85°	152	168
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	8140.5
2.5°	8116.7
5°	7972.5
7.5°	7779.5
10°	7607.9
12.5°	7444.6
15°	7275.4
17.5°	7103.9
20°	6920.4
22.5°	6734.5
25°	6530.7
27.5°	6316.3
30°	6043.4
32.5°	5594.2
35°	4680.3
37.5°	3512.6
40°	2541.5
42.5°	2043.5
45°	1774.2
47.5°	1584.7
50°	1465.6
52.5°	1379.8
55°	1285.7
57.5°	1180.8
60°	1080.7
62.5°	977.0
65°	877.0
67.5°	778.1
70°	681.6
72.5°	587.4
75°	493.3
77.5°	405.1
80°	316.9
82.5°	234.7
85°	152.5
87.5°	72.7
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	18.81	20.16	19.17	20.48	20.79	18.81	20.16	19.17	20.48	20.79
	3H	20.61	21.82	20.99	22.15	22.52	20.61	21.82	20.99	22.15	22.52
	4H	21.32	22.45	21.72	22.80	23.18	21.32	22.45	21.72	22.80	23.18
	6H	21.88	22.92	22.29	23.29	23.69	21.88	22.92	22.29	23.29	23.69
	8H	22.08	23.07	22.51	23.46	23.87	22.08	23.07	22.51	23.46	23.87
	12H	22.22	23.17	22.65	23.56	23.99	22.22	23.17	22.65	23.56	23.99
4H	2H	19.40	20.53	19.80	20.88	21.27	19.40	20.53	19.80	20.88	21.27
	3H	21.42	22.36	21.83	22.77	23.17	21.42	22.36	21.83	22.77	23.17
	4H	22.26	23.11	22.69	23.53	23.97	22.26	23.11	22.69	23.53	23.97
	6H	22.96	23.69	23.42	24.14	24.60	22.96	23.69	23.42	24.14	24.60
	8H	23.21	23.90	23.68	24.35	24.82	23.21	23.90	23.68	24.35	24.82
	12H	23.41	24.02	23.89	24.50	24.98	23.41	24.02	23.89	24.50	24.98
8H	4H	22.56	23.25	23.03	23.70	24.17	22.56	23.25	23.03	23.70	24.17
	6H	23.41	23.97	23.91	24.47	24.95	23.41	23.97	23.91	24.47	24.95
	8H	23.75	24.26	24.27	24.77	25.26	23.75	24.26	24.27	24.77	25.26
	12H	24.05	24.49	24.56	24.99	25.55	24.05	24.49	24.56	24.99	25.55
12H	4H	22.59	23.20	23.08	23.69	24.16	22.59	23.20	23.08	23.69	24.16
	6H	23.47	23.98	23.99	24.49	24.98	23.47	23.98	23.99	24.49	24.98
	8H	23.88	24.33	24.40	24.82	25.39	23.88	24.33	24.40	24.82	25.39