

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: P866459

Luminaire Tested: PRLX-2004-M-927-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-65L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

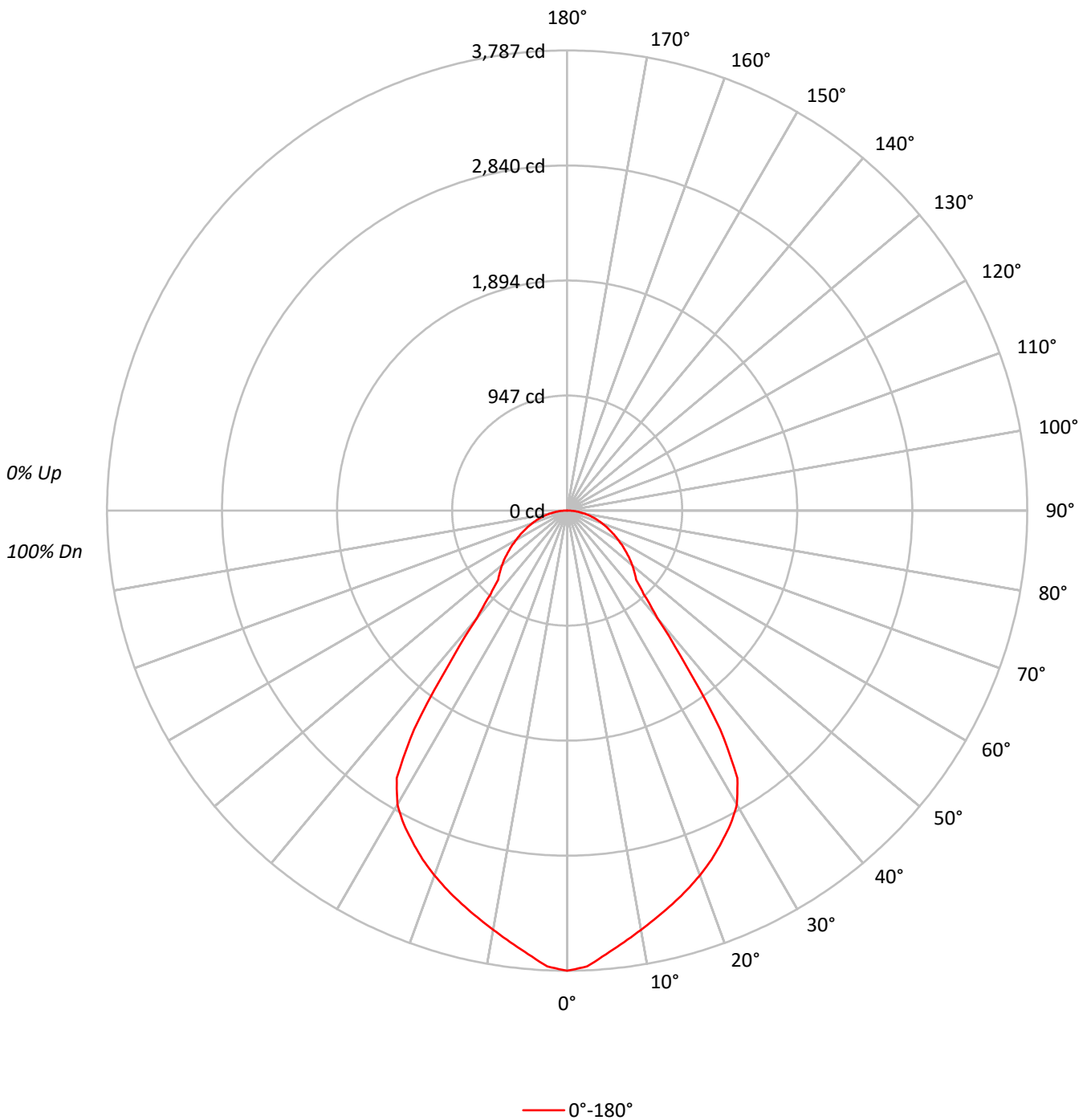
Lumens per Lamp: N/A
Luminaire Lumens: 5863.3 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	83	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	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	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	54	48	43	52	47	43	42
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°	30126
5°	29266
10°	28299
15°	27603
20°	27047
25°	26422
30°	25665
35°	21336
40°	12007
45°	9037
50°	8675
55°	8213
60°	7741
65°	7359
70°	7097
75°	6895
80°	6726
85°	6627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	5.9
10°-20°	945.4	16.1
20°-30°	1385.8	23.6
30°-40°	1294.6	22.1
40°-50°	656.5	11.2
50°-60°	530.1	9.0
60°-70°	389.7	6.6
70°-80°	237.1	4.0
80°-90°	79.2	1.4
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
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0°-30°	2676.1	45.6
0°-40°	3970.7	67.7
0°-60°	5157.3	88.0
0°-90°	5863.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5863.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3787	
5°	3665	345
15°	3351	945
25°	3010	1386
35°	2197	1295
45°	803	657
55°	592	530
65°	391	390
75°	224	237
85°	73	79
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3786.7
2.5°	3755.3
5°	3664.6
7.5°	3582.1
10°	3503.0
12.5°	3427.1
15°	3351.3
17.5°	3275.4
20°	3194.6
22.5°	3107.2
25°	3009.9
27.5°	2910.9
30°	2793.8
32.5°	2609.1
35°	2196.8
37.5°	1601.4
40°	1156.1
42.5°	931.8
45°	803.2
47.5°	750.4
50°	700.9
52.5°	646.5
55°	592.1
57.5°	539.3
60°	486.5
62.5°	440.3
65°	390.9
67.5°	348.0
70°	305.1
72.5°	263.9
75°	224.3
77.5°	184.7
80°	146.8
82.5°	108.8
85°	72.6
87.5°	36.3
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	17.71	19.06	18.08	19.38	19.69	17.71	19.06	18.08	19.38	19.69
	3H	19.45	20.66	19.83	20.99	21.36	19.45	20.66	19.83	20.99	21.36
	4H	20.16	21.30	20.56	21.65	22.03	20.16	21.30	20.56	21.65	22.03
	6H	20.74	21.78	21.15	22.15	22.55	20.74	21.78	21.15	22.15	22.55
	8H	20.95	21.94	21.38	22.33	22.74	20.95	21.94	21.38	22.33	22.74
	12H	21.11	22.06	21.54	22.44	22.87	21.11	22.06	21.54	22.44	22.87
4H	2H	18.27	19.40	18.67	19.75	20.13	18.27	19.40	18.67	19.75	20.13
	3H	20.24	21.19	20.66	21.59	21.99	20.24	21.19	20.66	21.59	21.99
	4H	21.09	21.94	21.53	22.36	22.80	21.09	21.94	21.53	22.36	22.80
	6H	21.81	22.55	22.27	22.99	23.46	21.81	22.55	22.27	22.99	23.46
	8H	22.08	22.77	22.55	23.21	23.68	22.08	22.77	22.55	23.21	23.68
	12H	22.29	22.90	22.78	23.39	23.86	22.29	22.90	22.78	23.39	23.86
8H	4H	21.40	22.09	21.87	22.53	23.00	21.40	22.09	21.87	22.53	23.00
	6H	22.27	22.84	22.77	23.33	23.81	22.27	22.84	22.77	23.33	23.81
	8H	22.63	23.14	23.15	23.65	24.14	22.63	23.14	23.15	23.65	24.14
	12H	22.95	23.39	23.46	23.89	24.46	22.95	23.39	23.46	23.89	24.46
12H	4H	21.43	22.04	21.92	22.52	23.00	21.43	22.04	21.92	22.52	23.00
	6H	22.34	22.85	22.86	23.36	23.85	22.34	22.85	22.86	23.36	23.85
	8H	22.77	23.21	23.28	23.71	24.28	22.77	23.21	23.28	23.71	24.28