

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: P865947

Luminaire Tested: PRLX-2001-M-927-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-65L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

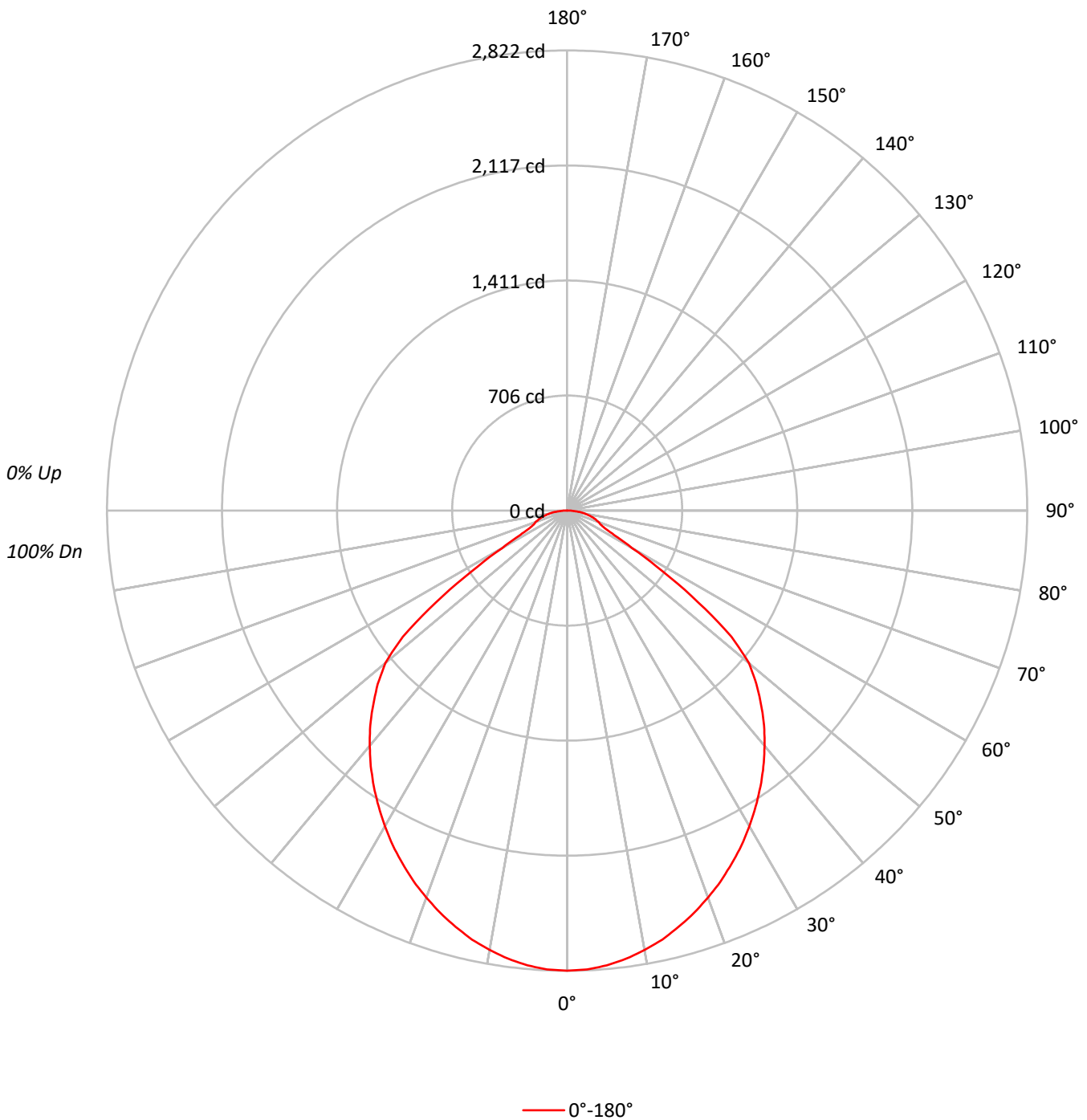
Lumens per Lamp: N/A
Luminaire Lumens: 6077.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23946
5°	23841
10°	23577
15°	23212
20°	22802
25°	22360
30°	21897
35°	21408
40°	20864
45°	20188
50°	19203
55°	14542
60°	7809
65°	5034
70°	5074
75°	5354
80°	5561
85°	5618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	4.4
10°-20°	745.0	12.3
20°-30°	1100.5	18.1
30°-40°	1292.2	21.3
40°-50°	1295.4	21.3
50°-60°	867.4	14.3
60°-70°	278.6	4.6
70°-80°	170.4	2.8
80°-90°	63.1	1.0
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°	2110.6	34.7
0°-40°	3402.8	56.0
0°-60°	5565.7	91.6
0°-90°	6077.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6077.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2822	
5°	2799	265
15°	2642	745
25°	2388	1100
35°	2066	1292
45°	1682	1295
55°	983	867
65°	251	279
75°	163	170
85°	58	63
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2821.8
2.5°	2816.9
5°	2798.8
7.5°	2772.4
10°	2736.1
12.5°	2694.9
15°	2642.1
17.5°	2587.7
20°	2525.0
22.5°	2460.7
25°	2388.1
27.5°	2315.5
30°	2234.7
32.5°	2152.3
35°	2066.5
37.5°	1977.4
40°	1883.4
42.5°	1787.8
45°	1682.2
47.5°	1575.0
50°	1454.6
52.5°	1269.9
55°	982.9
57.5°	697.6
60°	460.1
62.5°	324.9
65°	250.7
67.5°	221.0
70°	204.5
72.5°	184.7
75°	163.3
77.5°	138.5
80°	113.8
82.5°	87.4
85°	57.7
87.5°	29.7
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	19.31	20.79	19.68	21.10	21.42	19.31	20.79	19.68	21.10	21.42
	3H	19.79	21.10	20.17	21.43	21.80	19.79	21.10	20.17	21.43	21.80
	4H	20.12	21.34	20.52	21.69	22.07	20.12	21.34	20.52	21.69	22.07
	6H	20.44	21.57	20.86	21.94	22.33	20.44	21.57	20.86	21.94	22.33
	8H	20.58	21.65	21.01	22.04	22.44	20.58	21.65	21.01	22.04	22.44
	12H	20.69	21.71	21.12	22.09	22.52	20.69	21.71	21.12	22.09	22.52
4H	2H	19.35	20.57	19.75	20.92	21.30	19.35	20.57	19.75	20.92	21.30
	3H	20.06	21.06	20.47	21.46	21.86	20.06	21.06	20.47	21.46	21.86
	4H	20.53	21.43	20.96	21.85	22.29	20.53	21.43	20.96	21.85	22.29
	6H	21.03	21.81	21.49	22.25	22.71	21.03	21.81	21.49	22.25	22.71
	8H	21.24	21.97	21.70	22.41	22.88	21.24	21.97	21.70	22.41	22.88
	12H	21.41	22.06	21.90	22.54	23.01	21.41	22.06	21.90	22.54	23.01
8H	4H	20.69	21.42	21.16	21.87	22.34	20.69	21.42	21.16	21.87	22.34
	6H	21.33	21.93	21.83	22.43	22.90	21.33	21.93	21.83	22.43	22.90
	8H	21.62	22.17	22.14	22.68	23.17	21.62	22.17	22.14	22.68	23.17
	12H	21.89	22.38	22.40	22.87	23.44	21.89	22.38	22.40	22.87	23.44
12H	4H	20.71	21.36	21.19	21.84	22.31	20.71	21.36	21.19	21.84	22.31
	6H	21.37	21.92	21.89	22.43	22.92	21.37	21.92	21.89	22.43	22.92
	8H	21.73	22.22	22.24	22.71	23.28	21.73	22.22	22.24	22.71	23.28