

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: P866781

Luminaire Tested: PRLX-2001-L-930-83L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-83L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

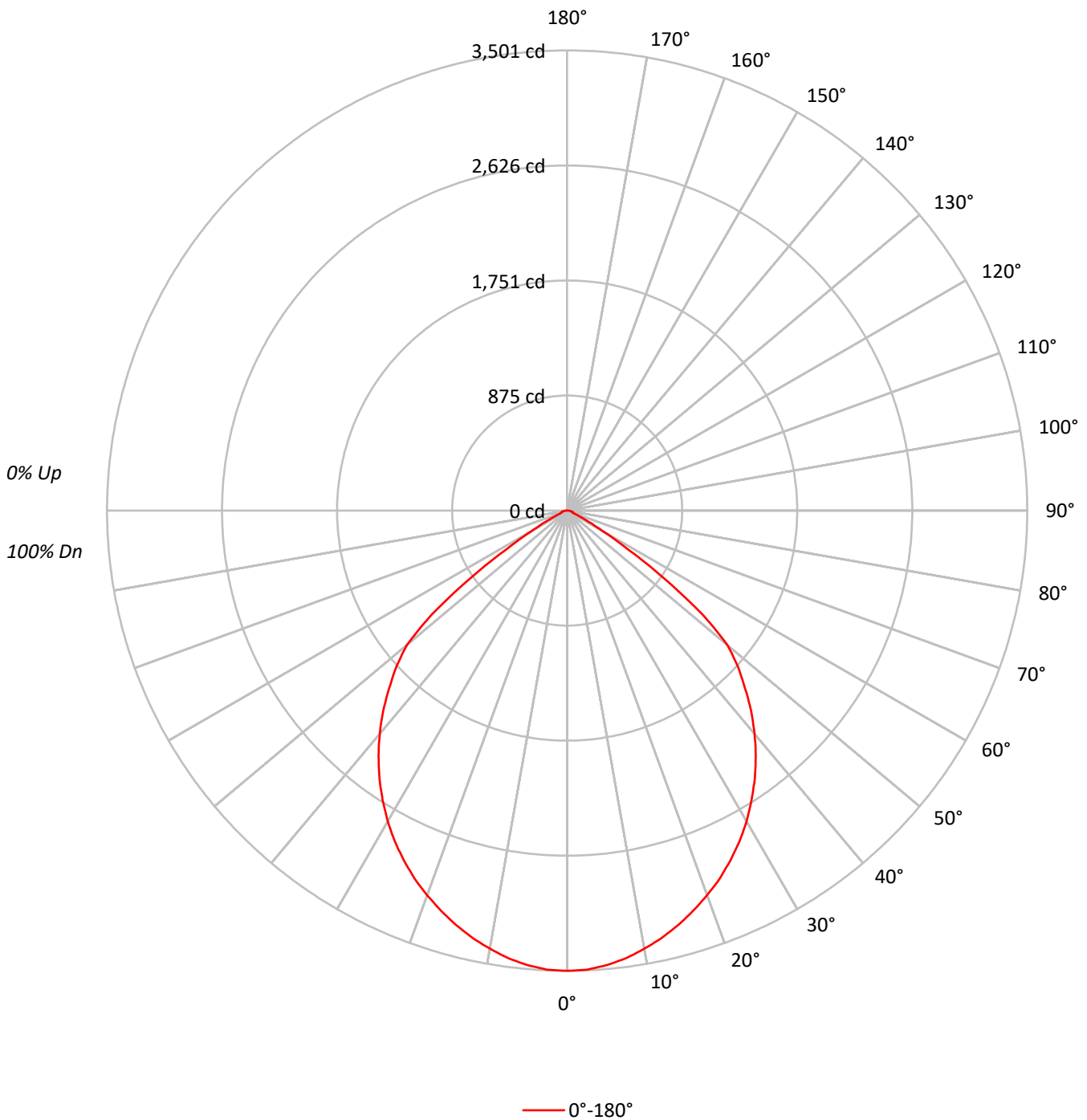
Lumens per Lamp: N/A
Luminaire Lumens: 6636.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.333 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	112	108	105	102	109	106	103	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19141
5°	19050
10°	18790
15°	18473
20°	18120
25°	17718
30°	17229
35°	16607
40°	15830
45°	14812
50°	13540
55°	8591
60°	3408
65°	1304
70°	788
75°	860
80°	967
85°	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	5.0
10°-20°	919.8	13.9
20°-30°	1352.0	20.4
30°-40°	1553.6	23.4
40°-50°	1476.0	22.2
50°-60°	818.4	12.3
60°-70°	127.7	1.9
70°-80°	42.8	0.6
80°-90°	17.8	0.3
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°	2600.5	39.2
0°-40°	4154.0	62.6
0°-60°	6448.4	97.2
0°-90°	6636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6636.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3501	
5°	3471	329
15°	3264	920
25°	2937	1352
35°	2488	1554
45°	1916	1476
55°	901	818
65°	101	128
75°	41	43
85°	17	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3501.3
2.5°	3495.6
5°	3471.3
7.5°	3434.8
10°	3384.8
12.5°	3329.8
15°	3264.0
17.5°	3191.8
20°	3114.6
22.5°	3031.0
25°	2937.3
27.5°	2838.7
30°	2729.3
32.5°	2612.1
35°	2488.4
37.5°	2357.6
40°	2218.2
42.5°	2073.1
45°	1915.8
47.5°	1763.5
50°	1592.0
52.5°	1299.6
55°	901.4
57.5°	548.3
60°	311.7
62.5°	185.1
65°	100.8
67.5°	55.0
70°	49.3
72.5°	45.0
75°	40.7
77.5°	36.5
80°	30.7
82.5°	24.3
85°	17.2
87.5°	8.6
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	15.88	17.26	16.25	17.57	17.89	15.88	17.26	16.25	17.57	17.89
	3H	15.82	17.03	16.20	17.36	17.72	15.82	17.03	16.20	17.36	17.72
	4H	15.80	16.92	16.20	17.27	17.65	15.80	16.92	16.20	17.27	17.65
	6H	15.78	16.81	16.20	17.18	17.58	15.78	16.81	16.20	17.18	17.58
	8H	15.77	16.75	16.20	17.14	17.54	15.77	16.75	16.20	17.14	17.54
	12H	15.76	16.69	16.19	17.08	17.51	15.76	16.69	16.19	17.08	17.51
4H	2H	15.75	16.88	16.16	17.23	17.61	15.75	16.88	16.16	17.23	17.61
	3H	15.72	16.63	16.13	17.03	17.43	15.72	16.63	16.13	17.03	17.43
	4H	15.71	16.52	16.15	16.94	17.38	15.71	16.52	16.15	16.94	17.38
	6H	15.74	16.43	16.20	16.88	17.34	15.74	16.43	16.20	16.88	17.34
	8H	15.74	16.39	16.21	16.83	17.30	15.74	16.39	16.21	16.83	17.30
	12H	15.74	16.32	16.23	16.80	17.27	15.74	16.32	16.23	16.80	17.27
8H	4H	15.62	16.27	16.09	16.72	17.19	15.62	16.27	16.09	16.72	17.19
	6H	15.66	16.20	16.16	16.69	17.17	15.66	16.20	16.16	16.69	17.17
	8H	15.68	16.17	16.20	16.68	17.17	15.68	16.17	16.20	16.68	17.17
	12H	15.72	16.16	16.23	16.65	17.22	15.72	16.16	16.23	16.65	17.22
12H	4H	15.58	16.16	16.07	16.64	17.12	15.58	16.16	16.07	16.64	17.12
	6H	15.62	16.11	16.14	16.62	17.11	15.62	16.11	16.14	16.62	17.11
	8H	15.67	16.11	16.18	16.60	17.17	15.67	16.11	16.18	16.60	17.17