

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: P866785

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-83L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

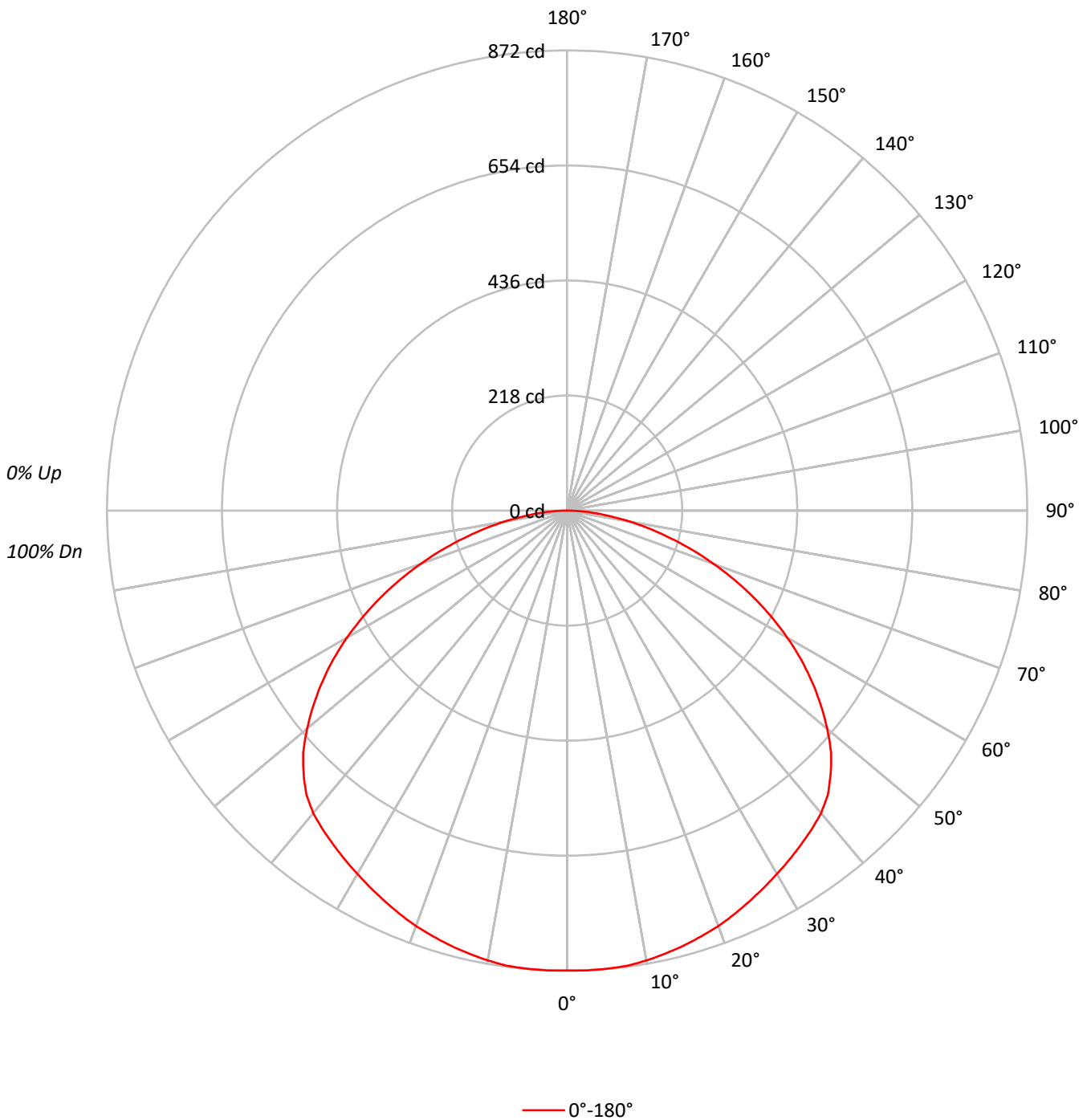
Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4764
5°	4782
10°	4806
15°	4831
20°	4874
25°	4929
30°	5018
35°	5157
40°	5341
45°	5461
50°	5472
55°	5403
60°	5268
65°	5049
70°	4718
75°	4288
80°	3803
85°	3092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 5490 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	2.9
10°-20°	241.3	8.3
20°-30°	377.5	13.0
30°-40°	484.7	16.7
40°-50°	543.3	18.8
50°-60°	505.9	17.5
60°-70°	385.6	13.3
70°-80°	216.5	7.5
80°-90°	58.0	2.0
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°	701.9	24.2
0°-40°	1186.6	41.0
0°-60°	2235.8	77.2
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	871	
5°	871	83
15°	854	241
25°	817	378
35°	773	485
45°	706	543
55°	567	506
65°	390	386
75°	203	217
85°	49	58
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	871.4
2.5°	872.1
5°	871.4
7.5°	870.0
10°	865.7
12.5°	860.0
15°	853.5
17.5°	845.7
20°	837.8
22.5°	827.8
25°	817.1
27.5°	806.3
30°	794.9
32.5°	784.2
35°	772.7
37.5°	761.3
40°	748.4
42.5°	731.3
45°	706.3
47.5°	678.4
50°	643.4
52.5°	606.2
55°	566.9
57.5°	526.1
60°	481.8
62.5°	436.8
65°	390.3
67.5°	343.1
70°	295.2
72.5°	249.5
75°	203.0
77.5°	160.8
80°	120.8
82.5°	82.2
85°	49.3
87.5°	21.4
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	18.26	19.95	18.63	20.27	20.58	18.26	19.95	18.63	20.27	20.58
	3H	20.05	21.58	20.43	21.90	22.26	20.05	21.58	20.43	21.90	22.26
	4H	20.69	22.14	21.09	22.48	22.86	20.69	22.14	21.09	22.48	22.86
	6H	21.16	22.50	21.57	22.86	23.25	21.16	22.50	21.57	22.86	23.25
	8H	21.30	22.58	21.73	22.97	23.37	21.30	22.58	21.73	22.97	23.37
	12H	21.40	22.62	21.82	23.00	23.43	21.40	22.62	21.82	23.00	23.43
4H	2H	18.91	20.35	19.30	20.70	21.07	18.91	20.35	19.30	20.70	21.07
	3H	20.90	22.12	21.31	22.51	22.91	20.90	22.12	21.31	22.51	22.91
	4H	21.67	22.77	22.10	23.18	23.62	21.67	22.77	22.10	23.18	23.62
	6H	22.26	23.23	22.72	23.66	24.12	22.26	23.23	22.72	23.66	24.12
	8H	22.45	23.35	22.91	23.79	24.26	22.45	23.35	22.91	23.79	24.26
	12H	22.59	23.40	23.07	23.87	24.34	22.59	23.40	23.07	23.87	24.34
8H	4H	21.98	22.88	22.44	23.32	23.78	21.98	22.88	22.44	23.32	23.78
	6H	22.69	23.44	23.18	23.92	24.40	22.69	23.44	23.18	23.92	24.40
	8H	22.94	23.61	23.45	24.12	24.60	22.94	23.61	23.45	24.12	24.60
	12H	23.14	23.74	23.65	24.23	24.79	23.14	23.74	23.65	24.23	24.79
12H	4H	22.01	22.82	22.49	23.30	23.77	22.01	22.82	22.49	23.30	23.77
	6H	22.74	23.41	23.25	23.92	24.40	22.74	23.41	23.25	23.92	24.40
	8H	23.05	23.65	23.56	24.13	24.69	23.05	23.65	23.56	24.13	24.69