

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: P866705

Luminaire Tested: PRLX-2001-L-927-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866705
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-927-48L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

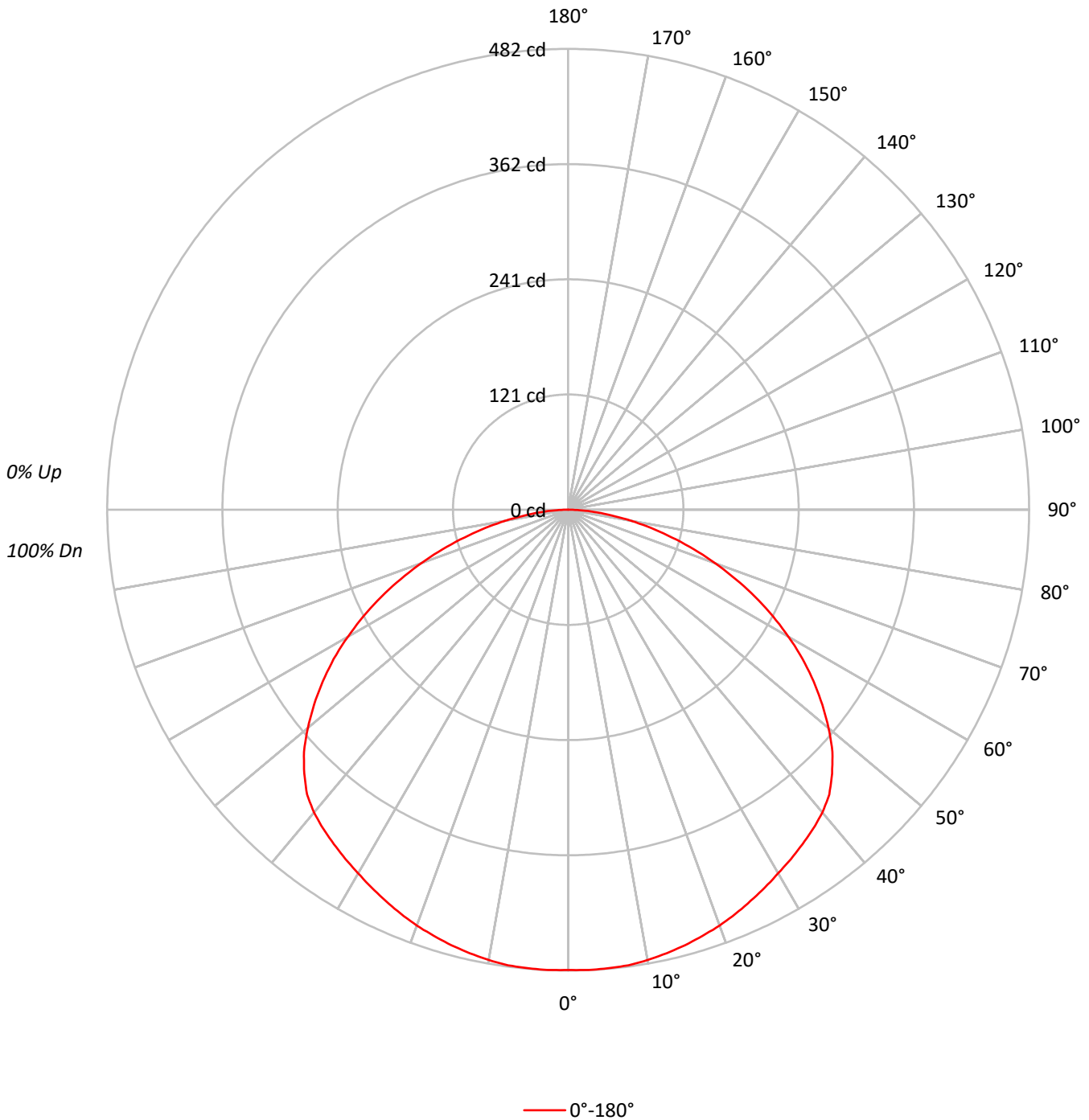
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1600.1 lumens
Efficiency: N/A
Efficacy: 42.7 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): 37.5
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°	2632
5°	2642
10°	2655
15°	2669
20°	2693
25°	2723
30°	2772
35°	2850
40°	2951
45°	3017
50°	3023
55°	2985
60°	2911
65°	2790
70°	2607
75°	2370
80°	2103
85°	1712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 3033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	2.9
10°-20°	133.3	8.3
20°-30°	208.6	13.0
30°-40°	267.8	16.7
40°-50°	300.2	18.8
50°-60°	279.5	17.5
60°-70°	213.1	13.3
70°-80°	119.7	7.5
80°-90°	32.1	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°	387.8	24.2
0°-40°	655.6	41.0
0°-60°	1235.3	77.2
0°-90°	1600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	482	
5°	482	46
15°	472	133
25°	452	209
35°	427	268
45°	390	300
55°	313	280
65°	216	213
75°	112	120
85°	27	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	481.5
2.5°	481.9
5°	481.5
7.5°	480.7
10°	478.3
12.5°	475.2
15°	471.6
17.5°	467.3
20°	462.9
22.5°	457.4
25°	451.5
27.5°	445.5
30°	439.2
32.5°	433.3
35°	427.0
37.5°	420.7
40°	413.5
42.5°	404.1
45°	390.2
47.5°	374.8
50°	355.5
52.5°	334.9
55°	313.2
57.5°	290.7
60°	266.2
62.5°	241.3
65°	215.7
67.5°	189.6
70°	163.1
72.5°	137.8
75°	112.2
77.5°	88.9
80°	66.8
82.5°	45.4
85°	27.3
87.5°	11.8
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	16.20	17.89	16.57	18.21	18.52	16.20	17.89	16.57	18.21	18.52
	3H	17.99	19.52	18.36	19.84	20.20	17.99	19.52	18.36	19.84	20.20
	4H	18.63	20.07	19.03	20.42	20.80	18.63	20.07	19.03	20.42	20.80
	6H	19.10	20.44	19.51	20.80	21.19	19.10	20.44	19.51	20.80	21.19
	8H	19.24	20.52	19.67	20.91	21.31	19.24	20.52	19.67	20.91	21.31
	12H	19.34	20.56	19.76	20.94	21.37	19.34	20.56	19.76	20.94	21.37
4H	2H	16.85	18.29	17.24	18.63	19.01	16.85	18.29	17.24	18.63	19.01
	3H	18.84	20.06	19.25	20.45	20.85	18.84	20.06	19.25	20.45	20.85
	4H	19.61	20.71	20.04	21.12	21.56	19.61	20.71	20.04	21.12	21.56
	6H	20.20	21.17	20.66	21.60	22.06	20.20	21.17	20.66	21.60	22.06
	8H	20.39	21.29	20.85	21.73	22.20	20.39	21.29	20.85	21.73	22.20
	12H	20.53	21.34	21.01	21.81	22.28	20.53	21.34	21.01	21.81	22.28
8H	4H	19.92	20.82	20.38	21.26	21.72	19.92	20.82	20.38	21.26	21.72
	6H	20.63	21.38	21.12	21.86	22.34	20.63	21.38	21.12	21.86	22.34
	8H	20.88	21.55	21.39	22.06	22.54	20.88	21.55	21.39	22.06	22.54
	12H	21.08	21.68	21.59	22.17	22.73	21.08	21.68	21.59	22.17	22.73
12H	4H	19.95	20.76	20.43	21.24	21.71	19.95	20.76	20.43	21.24	21.71
	6H	20.68	21.35	21.19	21.86	22.34	20.68	21.35	21.19	21.86	22.34
	8H	20.99	21.59	21.50	22.07	22.63	20.99	21.59	21.50	22.07	22.63