

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: P866739

Luminaire Tested: PRLX-2001-L-930-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-117L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

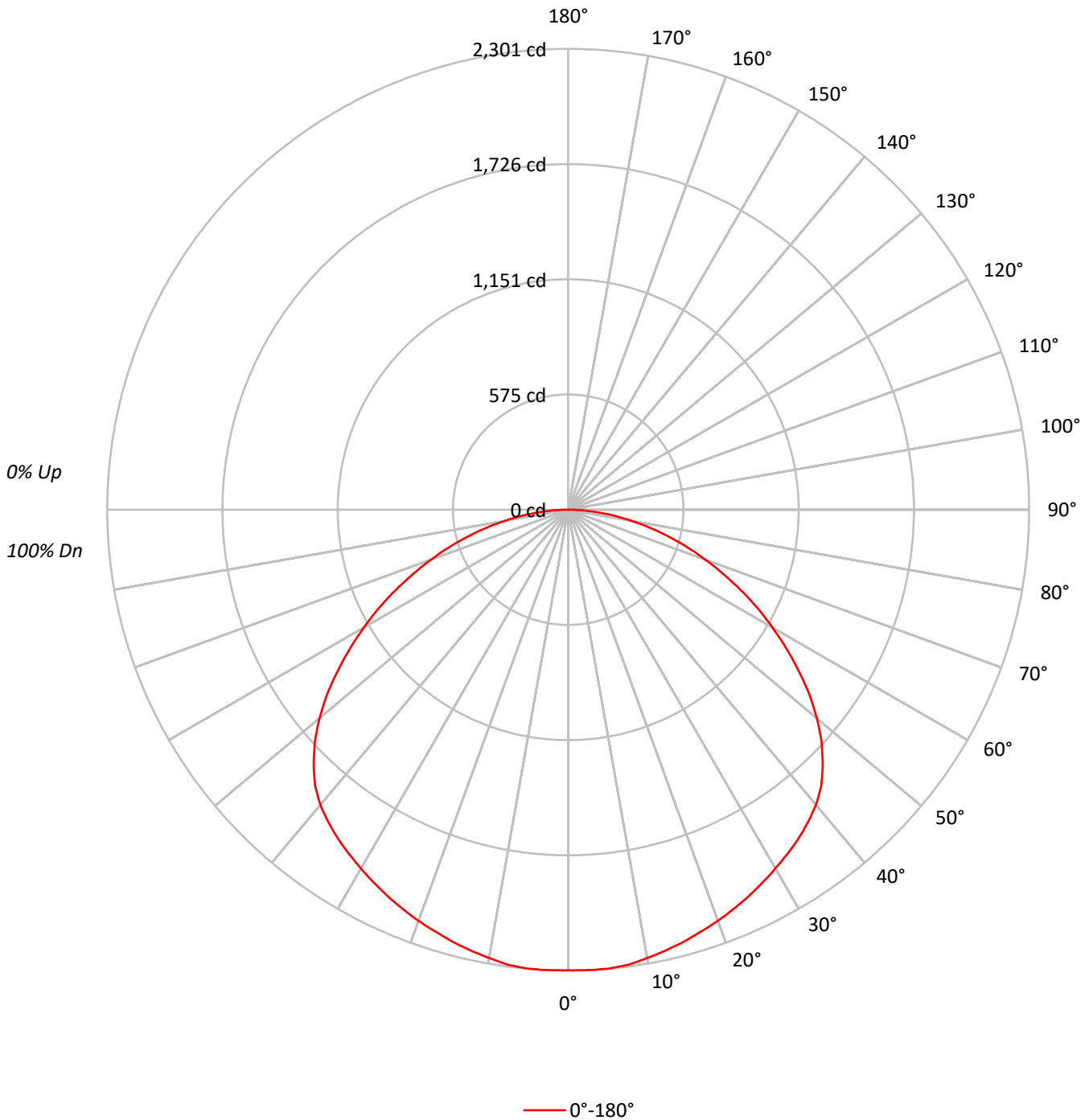
Lumens per Lamp: N/A
Luminaire Lumens: 7383.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12575
5°	12623
10°	12618
15°	12636
20°	12708
25°	12848
30°	13058
35°	13375
40°	13734
45°	13890
50°	13781
55°	13390
60°	12883
65°	12298
70°	11638
75°	10933
80°	10178
85°	9095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13890 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	3.0
10°-20°	631.1	8.5
20°-30°	983.7	13.3
30°-40°	1255.4	17.0
40°-50°	1381.9	18.7
50°-60°	1255.6	17.0
60°-70°	941.9	12.8
70°-80°	550.6	7.5
80°-90°	164.8	2.2
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°	1833.5	24.8
0°-40°	3088.9	41.8
0°-60°	5726.4	77.6
0°-90°	7383.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7383.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2300	
5°	2300	219
15°	2233	631
25°	2130	984
35°	2004	1255
45°	1797	1382
55°	1405	1256
65°	951	942
75°	518	551
85°	145	165
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2300.2
2.5°	2301.2
5°	2300.2
7.5°	2292.1
10°	2273.0
12.5°	2253.8
15°	2232.7
17.5°	2208.5
20°	2184.4
22.5°	2158.2
25°	2130.0
27.5°	2099.8
30°	2068.5
32.5°	2037.3
35°	2004.1
37.5°	1966.8
40°	1924.5
42.5°	1870.1
45°	1796.6
47.5°	1715.1
50°	1620.4
52.5°	1517.7
55°	1404.9
57.5°	1293.1
60°	1178.3
62.5°	1066.5
65°	950.7
67.5°	836.9
70°	728.1
72.5°	623.4
75°	517.6
77.5°	421.0
80°	323.3
82.5°	231.6
85°	145.0
87.5°	67.5
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	21.27	22.95	21.64	23.26	23.58	21.27	22.95	21.64	23.26	23.58
	3H	23.05	24.57	23.42	24.89	25.25	23.05	24.57	23.42	24.89	25.25
	4H	23.73	25.16	24.13	25.51	25.89	23.73	25.16	24.13	25.51	25.89
	6H	24.27	25.60	24.68	25.96	26.35	24.27	25.60	24.68	25.96	26.35
	8H	24.45	25.72	24.87	26.11	26.51	24.45	25.72	24.87	26.11	26.51
	12H	24.58	25.79	25.00	26.18	26.60	24.58	25.79	25.00	26.18	26.60
4H	2H	21.90	23.33	22.30	23.68	24.05	21.90	23.33	22.30	23.68	24.05
	3H	23.90	25.11	24.31	25.50	25.90	23.90	25.11	24.31	25.50	25.90
	4H	24.72	25.81	25.15	26.23	26.66	24.72	25.81	25.15	26.23	26.66
	6H	25.39	26.35	25.85	26.79	27.24	25.39	26.35	25.85	26.79	27.24
	8H	25.63	26.52	26.09	26.97	27.43	25.63	26.52	26.09	26.97	27.43
	12H	25.81	26.61	26.29	27.09	27.56	25.81	26.61	26.29	27.09	27.56
8H	4H	25.05	25.95	25.51	26.39	26.85	25.05	25.95	25.51	26.39	26.85
	6H	25.86	26.60	26.35	27.09	27.56	25.86	26.60	26.35	27.09	27.56
	8H	26.17	26.84	26.68	27.35	27.83	26.17	26.84	26.68	27.35	27.83
	12H	26.43	27.03	26.94	27.52	28.07	26.43	27.03	26.94	27.52	28.07
12H	4H	25.10	25.90	25.57	26.38	26.85	25.10	25.90	25.57	26.38	26.85
	6H	25.92	26.60	26.43	27.10	27.58	25.92	26.60	26.43	27.10	27.58
	8H	26.30	26.90	26.81	27.39	27.94	26.30	26.90	26.81	27.39	27.94