

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: P866987

Luminaire Tested: PRLX-2002-L-930-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-930-100L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

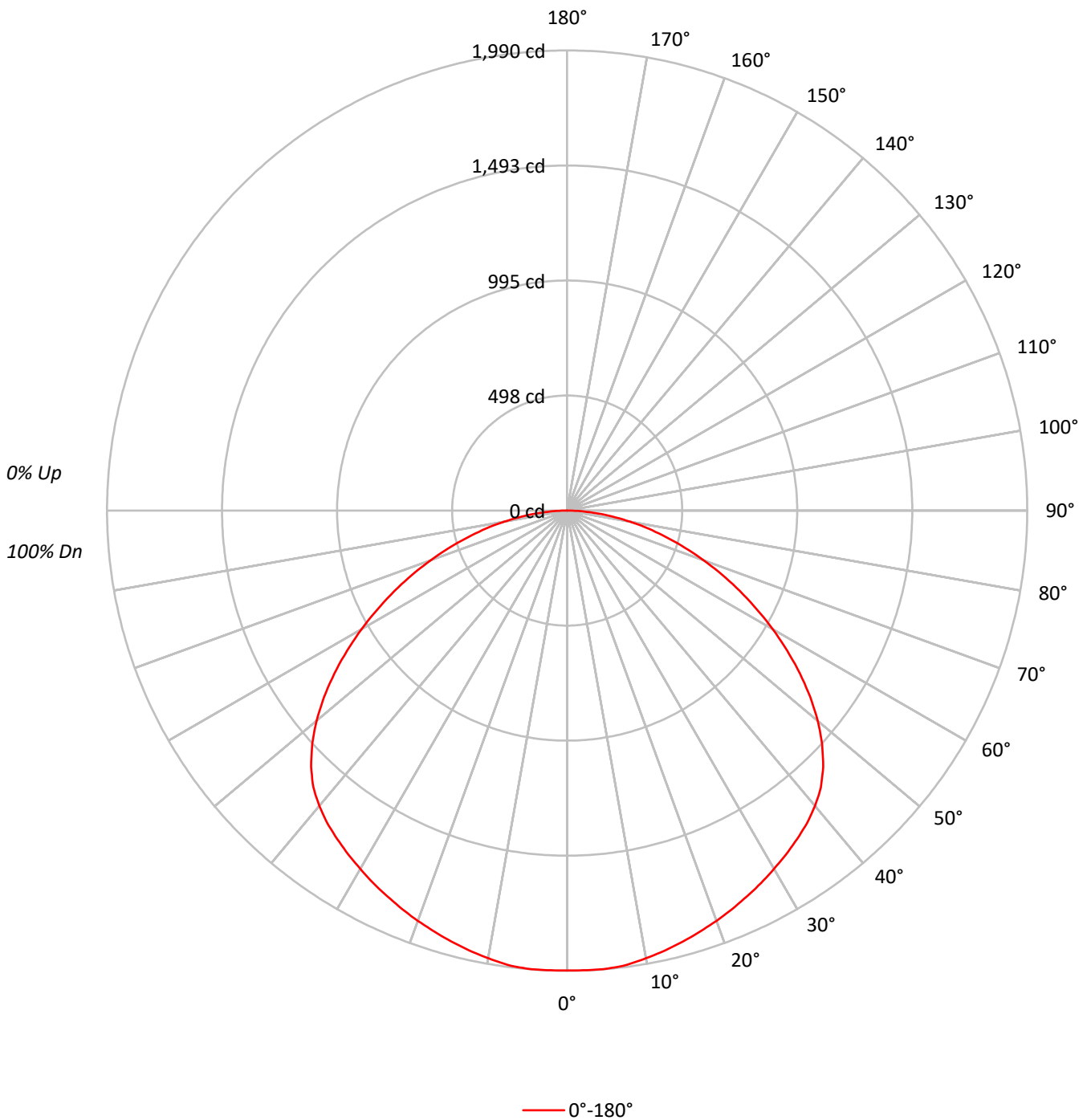
Lumens per Lamp: N/A
Luminaire Lumens: 6399.7 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): 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	94	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	27	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	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9812
5°	9850
10°	9848
15°	9860
20°	9913
25°	10021
30°	10193
35°	10444
40°	10741
45°	10927
50°	10864
55°	10576
60°	10135
65°	9619
70°	9042
75°	8435
80°	7828
85°	6969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	3.0
10°-20°	545.7	8.5
20°-30°	850.3	13.3
30°-40°	1086.7	17.0
40°-50°	1203.1	18.8
50°-60°	1096.5	17.1
60°-70°	816.9	12.8
70°-80°	471.6	7.4
80°-90°	139.8	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°	1585.1	24.8
0°-40°	2671.8	41.7
0°-60°	4971.4	77.7
0°-90°	6399.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1989	
5°	1989	189
15°	1930	546
25°	1841	850
35°	1734	1087
45°	1566	1203
55°	1230	1096
65°	824	817
75°	442	472
85°	123	140
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1988.8
2.5°	1989.7
5°	1988.8
7.5°	1981.9
10°	1965.6
12.5°	1949.2
15°	1930.3
17.5°	1909.6
20°	1888.1
22.5°	1864.8
25°	1840.7
27.5°	1815.8
30°	1789.1
32.5°	1762.4
35°	1734.0
37.5°	1703.8
40°	1667.7
42.5°	1624.6
45°	1566.1
47.5°	1495.5
50°	1415.4
52.5°	1325.0
55°	1229.5
57.5°	1127.9
60°	1027.1
62.5°	925.5
65°	823.9
67.5°	725.8
70°	626.8
72.5°	534.7
75°	442.5
77.5°	359.9
80°	275.5
82.5°	196.3
85°	123.1
87.5°	56.8
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	20.46	22.14	20.83	22.45	22.77	20.46	22.14	20.83	22.45	22.77
	3H	22.21	23.73	22.59	24.06	24.42	22.21	23.73	22.59	24.06	24.42
	4H	22.88	24.31	23.27	24.66	25.03	22.88	24.31	23.27	24.66	25.03
	6H	23.40	24.73	23.81	25.09	25.48	23.40	24.73	23.81	25.09	25.48
	8H	23.57	24.84	23.99	25.23	25.63	23.57	24.84	23.99	25.23	25.63
	12H	23.69	24.91	24.12	25.29	25.72	23.69	24.91	24.12	25.29	25.72
4H	2H	21.08	22.51	21.48	22.86	23.24	21.08	22.51	21.48	22.86	23.24
	3H	23.06	24.26	23.47	24.66	25.06	23.06	24.26	23.47	24.66	25.06
	4H	23.85	24.95	24.29	25.36	25.79	23.85	24.95	24.29	25.36	25.79
	6H	24.51	25.46	24.96	25.90	26.36	24.51	25.46	24.96	25.90	26.36
	8H	24.74	25.63	25.19	26.07	26.54	24.74	25.63	25.19	26.07	26.54
	12H	24.91	25.71	25.39	26.19	26.66	24.91	25.71	25.39	26.19	26.66
8H	4H	24.18	25.07	24.64	25.51	25.98	24.18	25.07	24.64	25.51	25.98
	6H	24.96	25.71	25.45	26.19	26.67	24.96	25.71	25.45	26.19	26.67
	8H	25.27	25.94	25.77	26.44	26.93	25.27	25.94	25.77	26.44	26.93
	12H	25.52	26.11	26.02	26.60	27.16	25.52	26.11	26.02	26.60	27.16
12H	4H	24.22	25.02	24.70	25.50	25.97	24.22	25.02	24.70	25.50	25.97
	6H	25.03	25.70	25.53	26.20	26.69	25.03	25.70	25.53	26.20	26.69
	8H	25.39	25.99	25.90	26.48	27.03	25.39	25.99	25.90	26.48	27.03