

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: P866855

Luminaire Tested: PRLX-2001-L-940-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-100L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

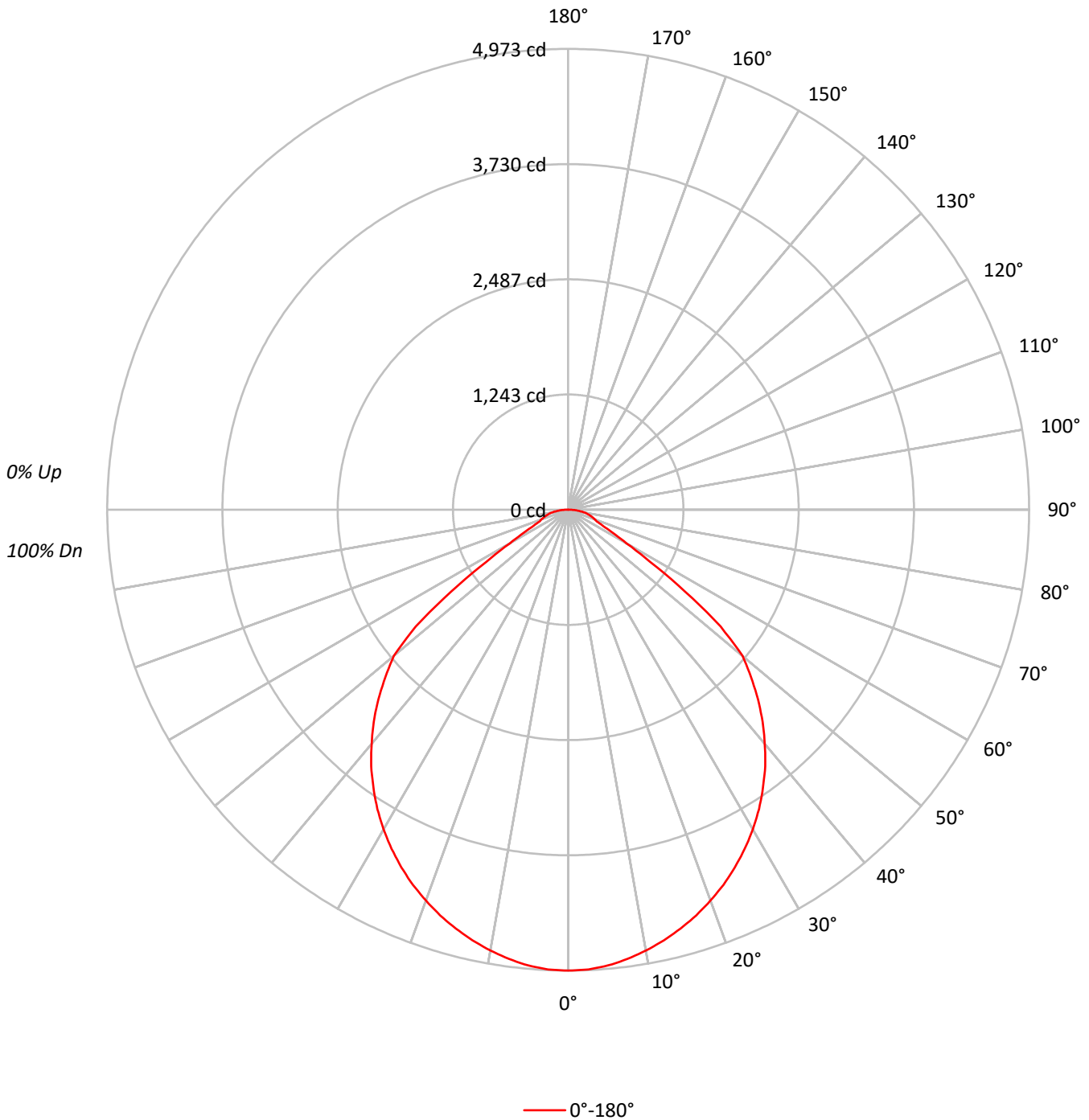
Lumens per Lamp: N/A
Luminaire Lumens: 10457.6 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	111	107	103	100	108	105	101	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27188
5°	27093
10°	26813
15°	26486
20°	26112
25°	25679
30°	25139
35°	24445
40°	23548
45°	22381
50°	20884
55°	14668
60°	7940
65°	5406
70°	4913
75°	5217
80°	5613
85°	6003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.8	4.5
10°-20°	1319.6	12.6
20°-30°	1960.1	18.7
30°-40°	2288.6	21.9
40°-50°	2227.7	21.3
50°-60°	1386.1	13.3
60°-70°	446.8	4.3
70°-80°	259.2	2.5
80°-90°	101.4	1.0
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°	3747.6	35.8
0°-40°	6036.2	57.7
0°-60°	9650.1	92.3
0°-90°	10457.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10457.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4973	
5°	4937	468
15°	4680	1320
25°	4257	1960
35°	3663	2289
45°	2895	2228
55°	1539	1386
65°	418	447
75°	247	259
85°	96	101
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4973.2
2.5°	4967.6
5°	4937.0
7.5°	4890.5
10°	4830.2
12.5°	4761.4
15°	4679.7
17.5°	4590.6
20°	4488.4
22.5°	4380.7
25°	4257.2
27.5°	4125.3
30°	3982.3
32.5°	3830.9
35°	3662.8
37.5°	3491.0
40°	3299.7
42.5°	3105.6
45°	2894.8
47.5°	2674.7
50°	2455.5
52.5°	2072.9
55°	1538.9
57.5°	1048.5
60°	726.2
62.5°	542.4
65°	417.9
67.5°	334.3
70°	307.4
72.5°	277.7
75°	247.0
77.5°	214.5
80°	178.3
82.5°	139.3
85°	95.7
87.5°	48.3
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	18.78	20.23	19.14	20.54	20.86	18.78	20.23	19.14	20.54	20.86
	3H	19.26	20.55	19.64	20.88	21.24	19.26	20.55	19.64	20.88	21.24
	4H	19.58	20.78	19.98	21.13	21.51	19.58	20.78	19.98	21.13	21.51
	6H	19.93	21.04	20.34	21.40	21.80	19.93	21.04	20.34	21.40	21.80
	8H	20.08	21.13	20.51	21.52	21.93	20.08	21.13	20.51	21.52	21.93
	12H	20.21	21.22	20.64	21.60	22.03	20.21	21.22	20.64	21.60	22.03
4H	2H	18.86	20.06	19.26	20.41	20.79	18.86	20.06	19.26	20.41	20.79
	3H	19.56	20.54	19.97	20.94	21.34	19.56	20.54	19.97	20.94	21.34
	4H	20.03	20.90	20.46	21.32	21.76	20.03	20.90	20.46	21.32	21.76
	6H	20.55	21.31	21.01	21.76	22.22	20.55	21.31	21.01	21.76	22.22
	8H	20.78	21.49	21.25	21.94	22.41	20.78	21.49	21.25	21.94	22.41
	12H	20.98	21.62	21.46	22.10	22.57	20.98	21.62	21.46	22.10	22.57
8H	4H	20.19	20.90	20.66	21.35	21.82	20.19	20.90	20.66	21.35	21.82
	6H	20.86	21.45	21.36	21.94	22.42	20.86	21.45	21.36	21.94	22.42
	8H	21.18	21.72	21.70	22.23	22.72	21.18	21.72	21.70	22.23	22.72
	12H	21.49	21.97	22.00	22.46	23.03	21.49	21.97	22.00	22.46	23.03
12H	4H	20.21	20.84	20.69	21.32	21.80	20.21	20.84	20.69	21.32	21.80
	6H	20.91	21.44	21.43	21.96	22.45	20.91	21.44	21.43	21.96	22.45
	8H	21.30	21.78	21.81	22.27	22.84	21.30	21.78	21.81	22.27	22.84