

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: P866887

Luminaire Tested: PRLX-2001-L-940-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866887
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-940-32L-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 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

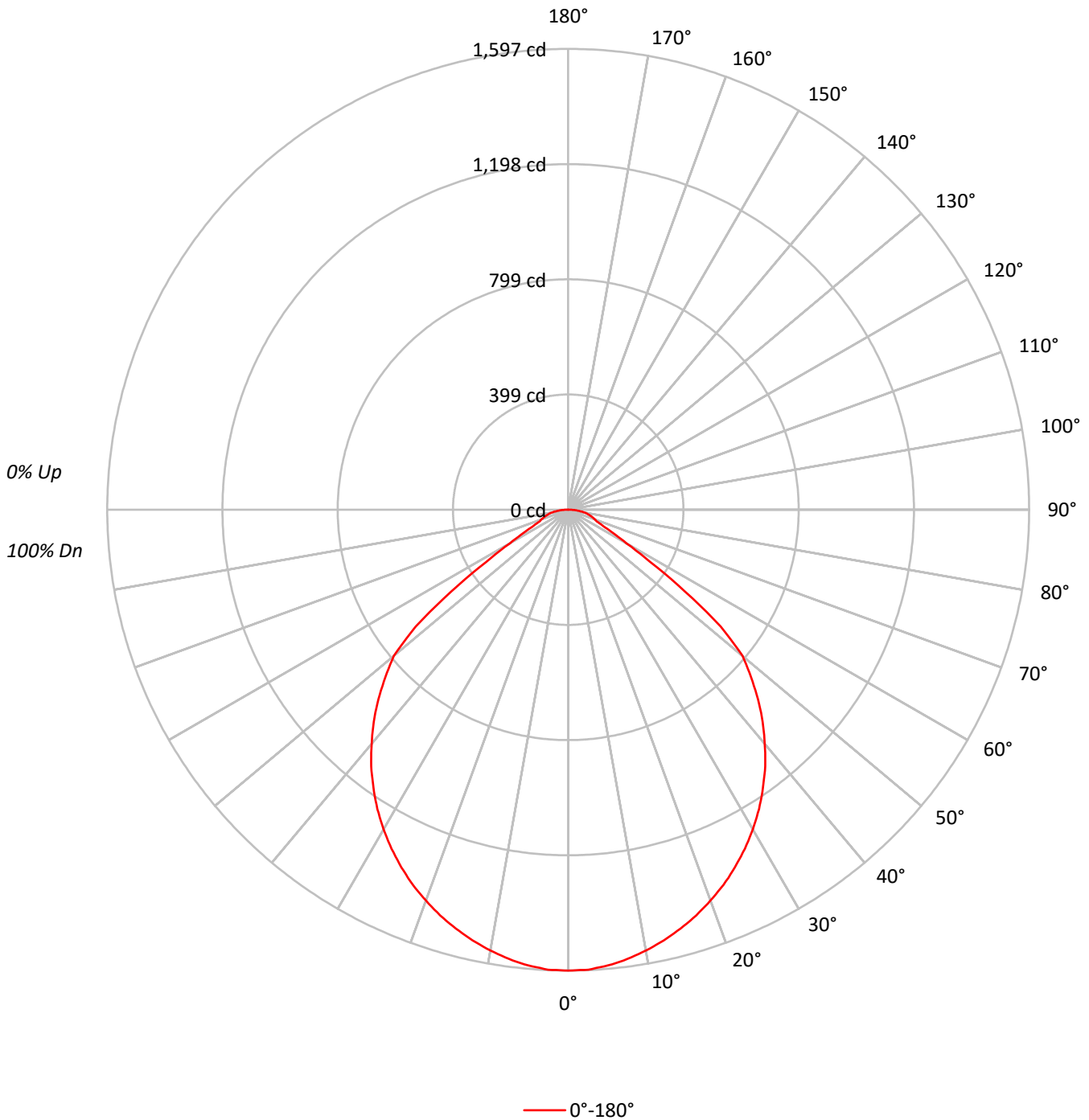
Lumens per Lamp: N/A
Luminaire Lumens: 3358.5 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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°	8732
5°	8701
10°	8611
15°	8506
20°	8386
25°	8247
30°	8073
35°	7850
40°	7563
45°	7188
50°	6707
55°	4710
60°	2550
65°	1736
70°	1578
75°	1675
80°	1804
85°	1926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	4.5
10°-20°	423.8	12.6
20°-30°	629.5	18.7
30°-40°	735.0	21.9
40°-50°	715.5	21.3
50°-60°	445.1	13.3
60°-70°	143.5	4.3
70°-80°	83.3	2.5
80°-90°	32.5	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°	1203.6	35.8
0°-40°	1938.6	57.7
0°-60°	3099.2	92.3
0°-90°	3358.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3358.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1597	
5°	1586	150
15°	1503	424
25°	1367	630
35°	1176	735
45°	930	715
55°	494	445
65°	134	144
75°	79	83
85°	31	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1597.2
2.5°	1595.4
5°	1585.5
7.5°	1570.6
10°	1551.2
12.5°	1529.2
15°	1502.9
17.5°	1474.3
20°	1441.5
22.5°	1406.9
25°	1367.2
27.5°	1324.9
30°	1278.9
32.5°	1230.3
35°	1176.3
37.5°	1121.1
40°	1059.7
42.5°	997.4
45°	929.7
47.5°	859.0
50°	788.6
52.5°	665.7
55°	494.2
57.5°	336.7
60°	233.2
62.5°	174.2
65°	134.2
67.5°	107.4
70°	98.7
72.5°	89.2
75°	79.3
77.5°	68.9
80°	57.3
82.5°	44.7
85°	30.7
87.5°	15.5
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	14.83	16.28	15.20	16.60	16.91	14.83	16.28	15.20	16.60	16.91
	3H	15.31	16.60	15.69	16.93	17.29	15.31	16.60	15.69	16.93	17.29
	4H	15.63	16.84	16.03	17.18	17.57	15.63	16.84	16.03	17.18	17.57
	6H	15.98	17.09	16.40	17.46	17.85	15.98	17.09	16.40	17.46	17.85
	8H	16.14	17.19	16.57	17.58	17.98	16.14	17.19	16.57	17.58	17.98
	12H	16.26	17.27	16.70	17.65	18.08	16.26	17.27	16.70	17.65	18.08
4H	2H	14.91	16.11	15.31	16.46	16.84	14.91	16.11	15.31	16.46	16.84
	3H	15.61	16.59	16.02	16.99	17.39	15.61	16.59	16.02	16.99	17.39
	4H	16.08	16.96	16.51	17.37	17.82	16.08	16.96	16.51	17.37	17.82
	6H	16.60	17.37	17.06	17.81	18.27	16.60	17.37	17.06	17.81	18.27
	8H	16.83	17.55	17.30	17.99	18.46	16.83	17.55	17.30	17.99	18.46
	12H	17.03	17.67	17.52	18.15	18.62	17.03	17.67	17.52	18.15	18.62
8H	4H	16.24	16.96	16.71	17.40	17.87	16.24	16.96	16.71	17.40	17.87
	6H	16.91	17.50	17.41	18.00	18.48	16.91	17.50	17.41	18.00	18.48
	8H	17.24	17.77	17.75	18.29	18.78	17.24	17.77	17.75	18.29	18.78
	12H	17.54	18.02	18.05	18.51	19.08	17.54	18.02	18.05	18.51	19.08
12H	4H	16.26	16.90	16.74	17.38	17.85	16.26	16.90	16.74	17.38	17.85
	6H	16.96	17.50	17.48	18.01	18.50	16.96	17.50	17.48	18.01	18.50
	8H	17.35	17.83	17.86	18.33	18.89	17.35	17.83	17.86	18.33	18.89