

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: P866695

Luminaire Tested: PRLX-2001-L-927-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866695
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-927-32L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

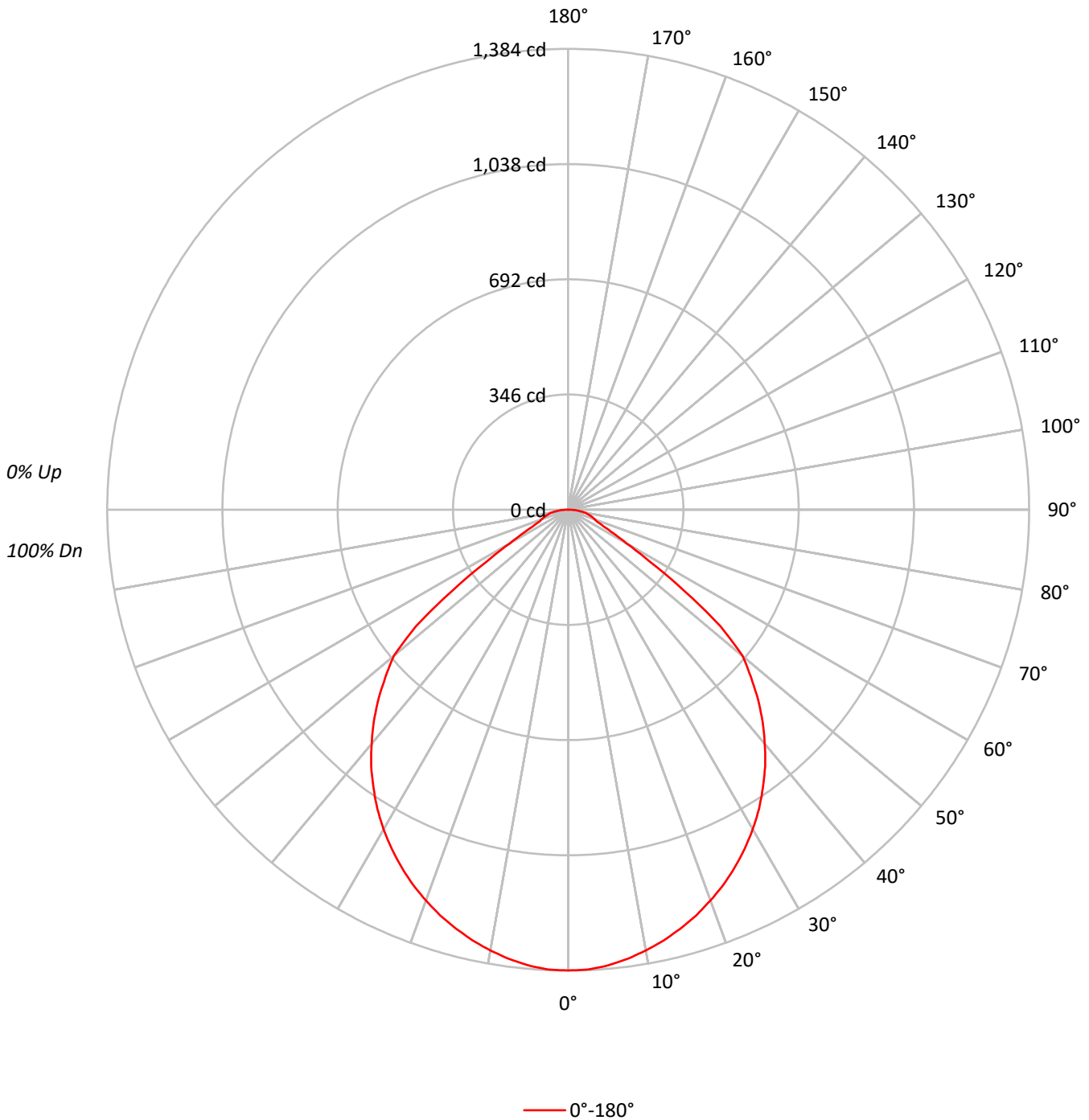
Lumens per Lamp: N/A
Luminaire Lumens: 2909.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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°	7565
5°	7539
10°	7461
15°	7370
20°	7266
25°	7146
30°	6995
35°	6802
40°	6553
45°	6228
50°	5811
55°	4081
60°	2210
65°	1504
70°	1367
75°	1451
80°	1562
85°	1668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6228 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	4.5
10°-20°	367.2	12.6
20°-30°	545.4	18.7
30°-40°	636.8	21.9
40°-50°	619.9	21.3
50°-60°	385.7	13.3
60°-70°	124.3	4.3
70°-80°	72.1	2.5
80°-90°	28.2	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°	1042.8	35.8
0°-40°	1679.6	57.7
0°-60°	2685.3	92.3
0°-90°	2909.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1384	
5°	1374	130
15°	1302	367
25°	1185	545
35°	1019	637
45°	806	620
55°	428	386
65°	116	124
75°	69	72
85°	27	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1383.8
2.5°	1382.3
5°	1373.8
7.5°	1360.8
10°	1344.0
12.5°	1324.9
15°	1302.2
17.5°	1277.4
20°	1248.9
22.5°	1219.0
25°	1184.6
27.5°	1147.9
30°	1108.1
32.5°	1066.0
35°	1019.2
37.5°	971.4
40°	918.2
42.5°	864.2
45°	805.5
47.5°	744.2
50°	683.3
52.5°	576.8
55°	428.2
57.5°	291.8
60°	202.1
62.5°	150.9
65°	116.3
67.5°	93.0
70°	85.5
72.5°	77.3
75°	68.7
77.5°	59.7
80°	49.6
82.5°	38.8
85°	26.6
87.5°	13.4
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	14.34	15.79	14.70	16.10	16.42	14.34	15.79	14.70	16.10	16.42
	3H	14.81	16.10	15.19	16.43	16.79	14.81	16.10	15.19	16.43	16.79
	4H	15.14	16.34	15.54	16.69	17.07	15.14	16.34	15.54	16.69	17.07
	6H	15.49	16.59	15.90	16.96	17.35	15.49	16.59	15.90	16.96	17.35
	8H	15.64	16.69	16.07	17.08	17.48	15.64	16.69	16.07	17.08	17.48
	12H	15.77	16.77	16.20	17.15	17.58	15.77	16.77	16.20	17.15	17.58
4H	2H	14.42	15.62	14.82	15.97	16.35	14.42	15.62	14.82	15.97	16.35
	3H	15.11	16.09	15.52	16.50	16.90	15.11	16.09	15.52	16.50	16.90
	4H	15.58	16.46	16.01	16.88	17.32	15.58	16.46	16.01	16.88	17.32
	6H	16.11	16.87	16.57	17.31	17.78	16.11	16.87	16.57	17.31	17.78
	8H	16.34	17.05	16.80	17.49	17.96	16.34	17.05	16.80	17.49	17.96
	12H	16.54	17.17	17.02	17.65	18.13	16.54	17.17	17.02	17.65	18.13
8H	4H	15.75	16.46	16.21	16.90	17.37	15.75	16.46	16.21	16.90	17.37
	6H	16.41	17.01	16.91	17.50	17.98	16.41	17.01	16.91	17.50	17.98
	8H	16.74	17.28	17.26	17.79	18.28	16.74	17.28	17.26	17.79	18.28
	12H	17.04	17.52	17.56	18.02	18.58	17.04	17.52	17.56	18.02	18.58
12H	4H	15.76	16.40	16.25	16.88	17.35	15.76	16.40	16.25	16.88	17.35
	6H	16.46	17.00	16.98	17.51	18.00	16.46	17.00	16.98	17.51	18.00
	8H	16.86	17.34	17.37	17.83	18.40	16.86	17.34	17.37	17.83	18.40