

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: P866756

Luminaire Tested: PRLX-2001-L-930-32L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-32L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

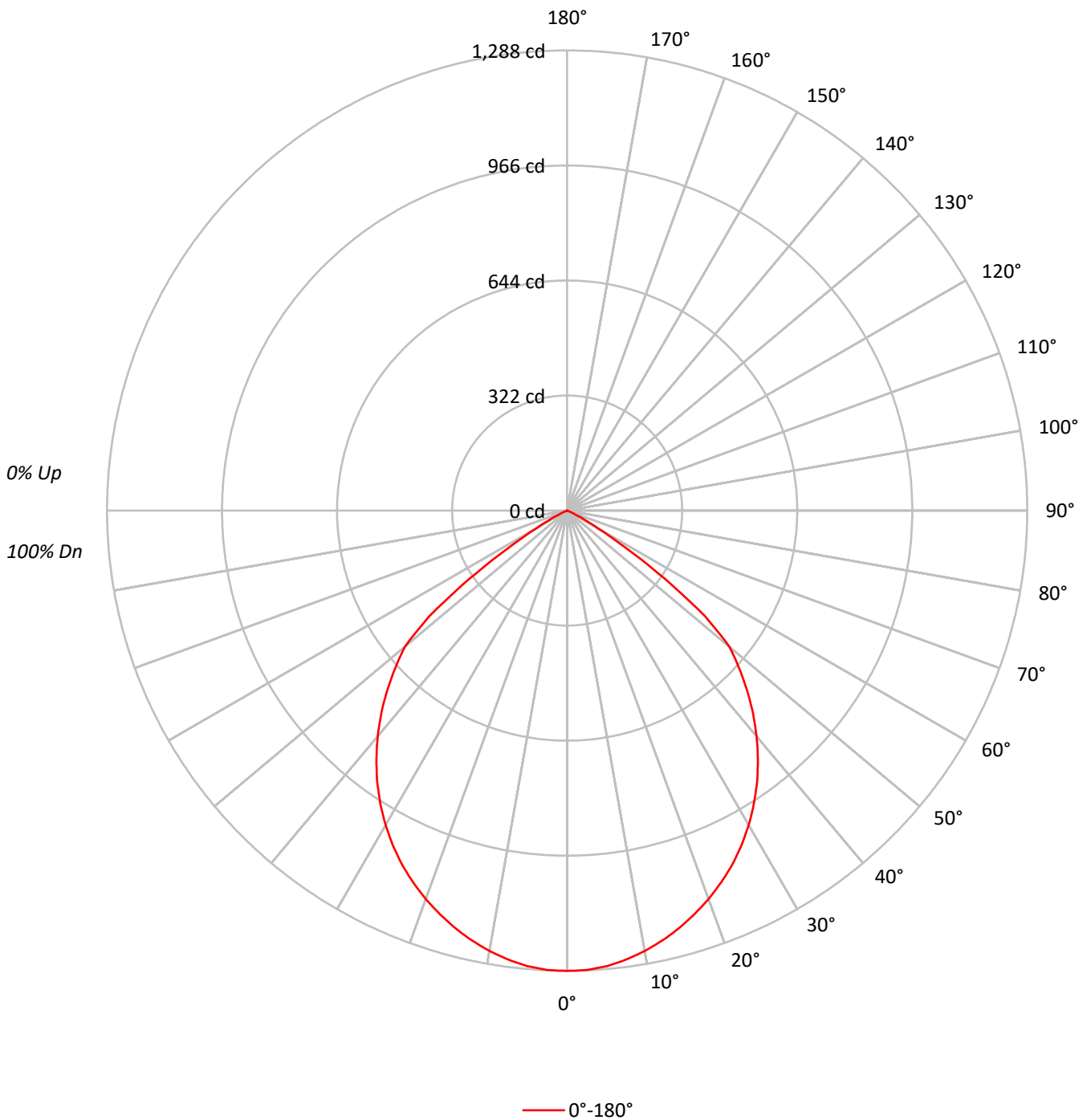
Lumens per Lamp: N/A
Luminaire Lumens: 2428.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7044
5°	7024
10°	6947
15°	6848
20°	6731
25°	6595
30°	6414
35°	6184
40°	5886
45°	5507
50°	5039
55°	3197
60°	1110
65°	279
70°	48
75°	53
80°	60
85°	69

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5507 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	5.0
10°-20°	341.0	14.0
20°-30°	502.9	20.7
30°-40°	578.3	23.8
40°-50°	548.3	22.6
50°-60°	300.8	12.4
60°-70°	31.8	1.3
70°-80°	2.6	0.1
80°-90°	1.2	0.0
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°	965.2	39.7
0°-40°	1543.5	63.6
0°-60°	2392.5	98.5
0°-90°	2428.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1288	
5°	1280	121
15°	1210	341
25°	1093	503
35°	927	578
45°	712	548
55°	335	301
65°	22	32
75°	2	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1288.5
2.5°	1287.1
5°	1279.9
7.5°	1267.5
10°	1251.4
12.5°	1232.4
15°	1210.0
17.5°	1184.8
20°	1156.9
22.5°	1126.5
25°	1093.3
27.5°	1056.2
30°	1016.1
32.5°	973.0
35°	926.6
37.5°	877.1
40°	824.8
42.5°	770.1
45°	712.3
47.5°	653.4
50°	592.5
52.5°	486.9
55°	335.4
57.5°	191.9
60°	101.5
62.5°	52.8
65°	21.6
67.5°	4.1
70°	3.0
72.5°	2.8
75°	2.5
77.5°	2.2
80°	1.9
82.5°	1.7
85°	1.1
87.5°	0.6
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	12.08	13.44	12.45	13.75	14.07	12.08	13.44	12.45	13.75	14.07
	3H	11.96	13.15	12.34	13.48	13.84	11.96	13.15	12.34	13.48	13.84
	4H	11.89	12.99	12.29	13.34	13.73	11.89	12.99	12.29	13.34	13.73
	6H	11.81	12.82	12.23	13.19	13.59	11.81	12.82	12.23	13.19	13.59
	8H	11.77	12.73	12.20	13.12	13.52	11.77	12.73	12.20	13.12	13.52
	12H	11.73	12.65	12.16	13.03	13.46	11.73	12.65	12.16	13.03	13.46
4H	2H	11.91	13.02	12.32	13.37	13.75	11.91	13.02	12.32	13.37	13.75
	3H	11.79	12.68	12.20	13.08	13.48	11.79	12.68	12.20	13.08	13.48
	4H	11.70	12.49	12.14	12.91	13.35	11.70	12.49	12.14	12.91	13.35
	6H	11.63	12.30	12.09	12.75	13.22	11.63	12.30	12.09	12.75	13.22
	8H	11.57	12.20	12.04	12.65	13.12	11.57	12.20	12.04	12.65	13.12
	12H	11.52	12.08	12.01	12.57	13.04	11.52	12.08	12.01	12.57	13.04
8H	4H	11.57	12.20	12.04	12.65	13.12	11.57	12.20	12.04	12.65	13.12
	6H	11.46	11.98	11.96	12.48	12.96	11.46	11.98	11.96	12.48	12.96
	8H	11.40	11.87	11.92	12.38	12.88	11.40	11.87	11.92	12.38	12.88
	12H	11.35	11.77	11.86	12.27	12.84	11.35	11.77	11.86	12.27	12.84
12H	4H	11.52	12.08	12.00	12.56	13.03	11.52	12.08	12.00	12.56	13.03
	6H	11.39	11.87	11.92	12.38	12.87	11.39	11.87	11.92	12.38	12.87
	8H	11.34	11.77	11.86	12.26	12.84	11.34	11.77	11.86	12.26	12.84