

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: P866760

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-32L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

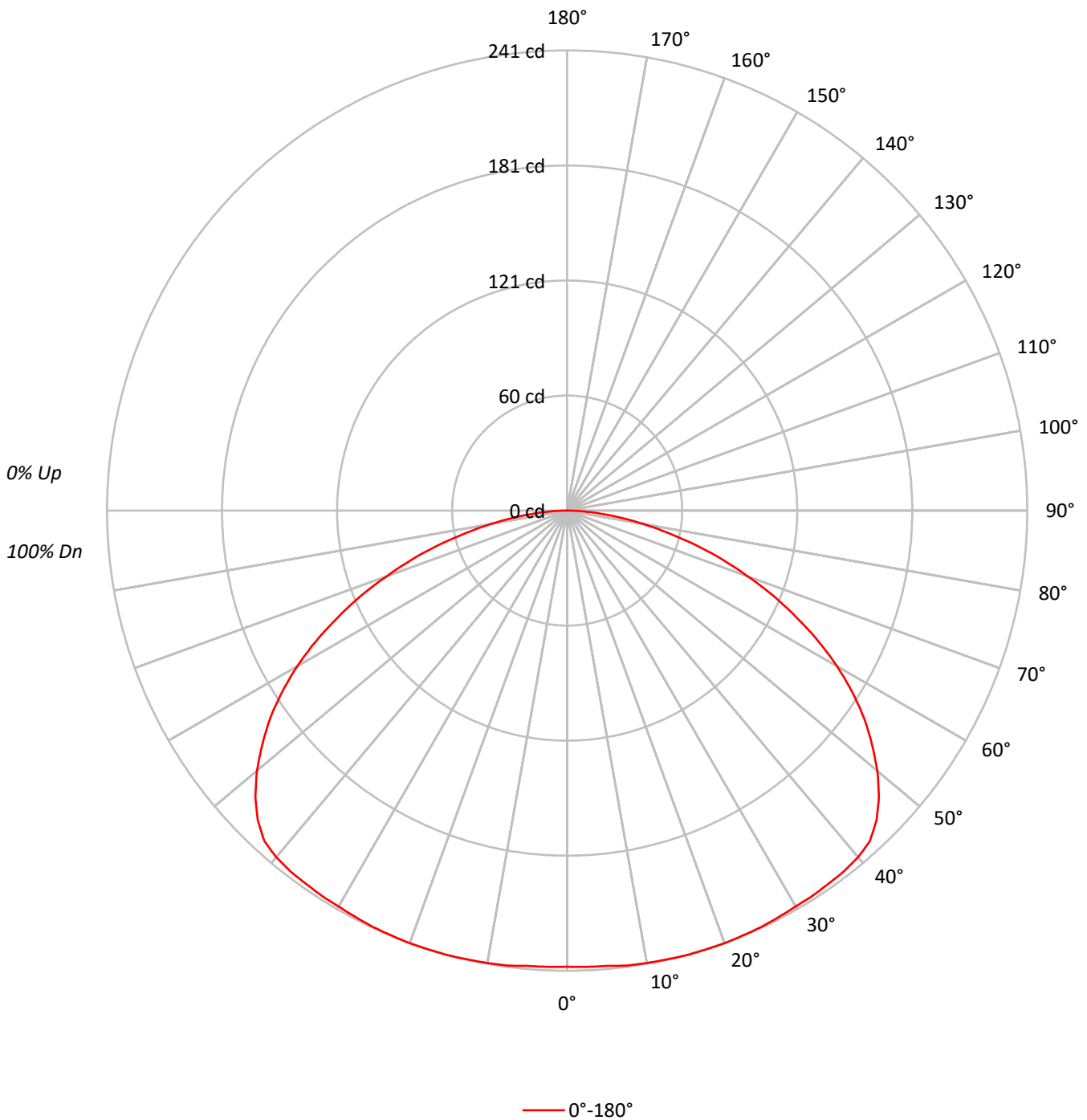
Lumens per Lamp: N/A
Luminaire Lumens: 921.6 lumens
Efficiency: N/A
Efficacy: 35.3 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1306
5°	1314
10°	1336
15°	1365
20°	1403
25°	1451
30°	1511
35°	1592
40°	1691
45°	1772
50°	1804
55°	1811
60°	1787
65°	1717
70°	1608
75°	1466
80°	1278
85°	1004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1811 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	2.5
10°-20°	68.3	7.4
20°-30°	111.3	12.1
30°-40°	149.8	16.3
40°-50°	175.9	19.1
50°-60°	169.2	18.4
60°-70°	131.2	14.2
70°-80°	73.7	8.0
80°-90°	19.3	2.1
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°	202.5	22.0
0°-40°	352.3	38.2
0°-60°	697.4	75.7
0°-90°	921.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	239	
5°	239	23
15°	241	68
25°	241	111
35°	239	150
45°	229	176
55°	190	169
65°	133	131
75°	69	74
85°	16	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	238.9
2.5°	239.2
5°	239.4
7.5°	240.3
10°	240.6
12.5°	240.8
15°	241.1
17.5°	241.1
20°	241.1
22.5°	240.8
25°	240.6
27.5°	240.0
30°	239.4
32.5°	239.2
35°	238.6
37.5°	238.1
40°	237.0
42.5°	234.7
45°	229.2
47.5°	221.5
50°	212.1
52.5°	201.3
55°	190.0
57.5°	177.2
60°	163.4
62.5°	148.5
65°	132.7
67.5°	117.2
70°	100.6
72.5°	85.2
75°	69.4
77.5°	54.2
80°	40.6
82.5°	27.7
85°	16.0
87.5°	6.9
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	14.64	16.36	15.01	16.68	16.99	14.64	16.36	15.01	16.68	16.99
	3H	16.47	18.03	16.84	18.35	18.71	16.47	18.03	16.84	18.35	18.71
	4H	17.12	18.60	17.52	18.94	19.32	17.12	18.60	17.52	18.94	19.32
	6H	17.58	18.95	17.99	19.32	19.71	17.58	18.95	17.99	19.32	19.71
	8H	17.73	19.04	18.15	19.42	19.82	17.73	19.04	18.15	19.42	19.82
	12H	17.82	19.07	18.24	19.45	19.88	17.82	19.07	18.24	19.45	19.88
4H	2H	15.30	16.77	15.70	17.12	17.49	15.30	16.77	15.70	17.12	17.49
	3H	17.34	18.58	17.74	18.97	19.37	17.34	18.58	17.74	18.97	19.37
	4H	18.12	19.24	18.55	19.65	20.09	18.12	19.24	18.55	19.65	20.09
	6H	18.70	19.69	19.15	20.13	20.58	18.70	19.69	19.15	20.13	20.58
	8H	18.89	19.81	19.35	20.25	20.72	18.89	19.81	19.35	20.25	20.72
	12H	19.02	19.85	19.49	20.32	20.79	19.02	19.85	19.49	20.32	20.79
8H	4H	18.43	19.35	18.89	19.79	20.26	18.43	19.35	18.89	19.79	20.26
	6H	19.13	19.90	19.62	20.38	20.86	19.13	19.90	19.62	20.38	20.86
	8H	19.38	20.07	19.89	20.57	21.06	19.38	20.07	19.89	20.57	21.06
	12H	19.57	20.18	20.08	20.67	21.23	19.57	20.18	20.08	20.67	21.23
12H	4H	18.47	19.30	18.94	19.77	20.24	18.47	19.30	18.94	19.77	20.24
	6H	19.18	19.87	19.69	20.38	20.86	19.18	19.87	19.69	20.38	20.86
	8H	19.49	20.10	19.99	20.59	21.15	19.49	20.10	19.99	20.59	21.15