

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: P866491

Luminaire Tested: PRLX-2004-M-930-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

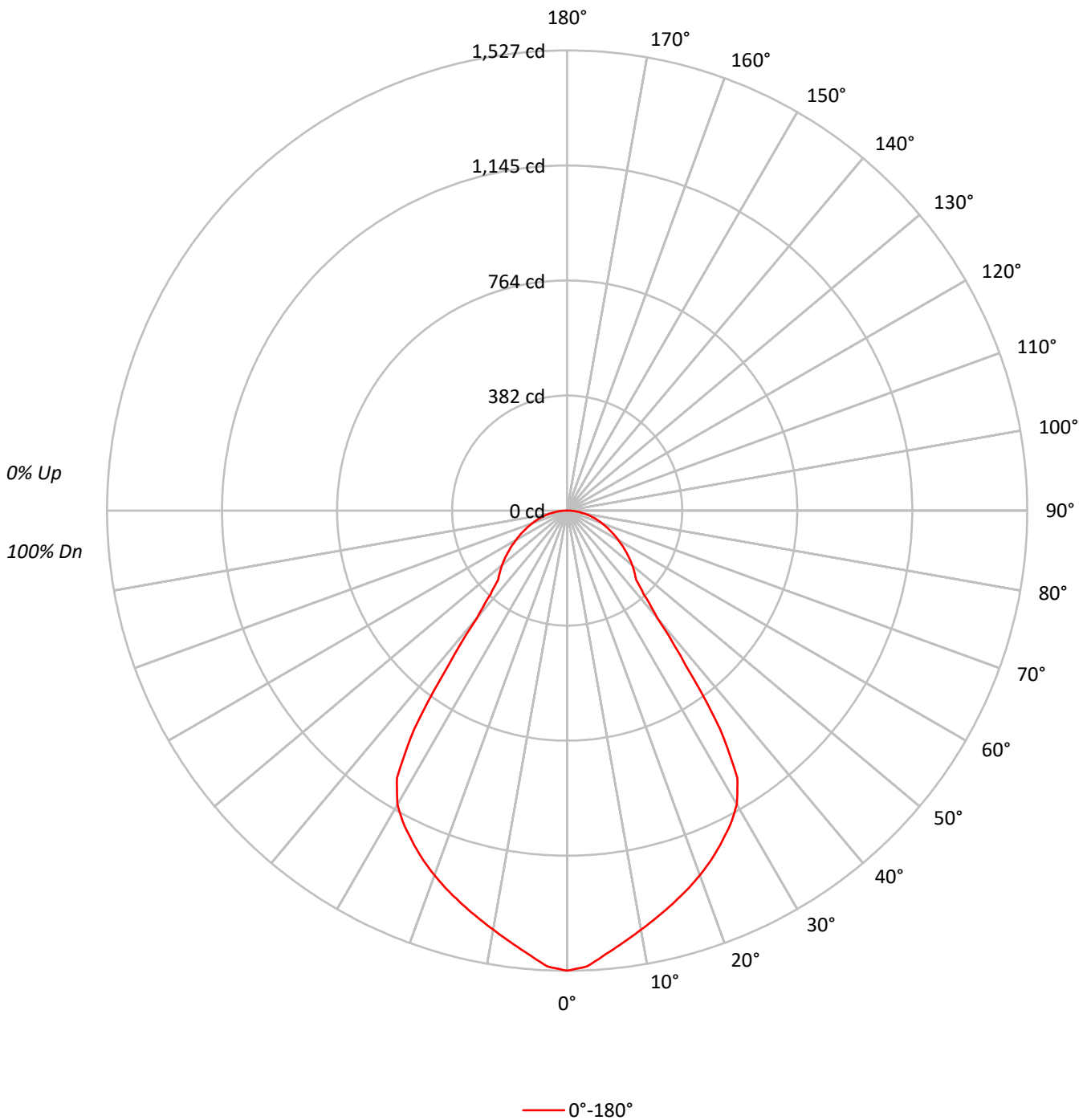
Lumens per Lamp: N/A
Luminaire Lumens: 2363.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64		73	68	64		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12145
5°	11799
10°	11409
15°	11128
20°	10904
25°	10652
30°	10348
35°	8602
40°	4841
45°	3643
50°	3498
55°	3311
60°	3122
65°	2967
70°	2861
75°	2779
80°	2712
85°	2675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	5.9
10°-20°	381.1	16.1
20°-30°	558.7	23.6
30°-40°	521.9	22.1
40°-50°	264.7	11.2
50°-60°	213.7	9.0
60°-70°	157.1	6.6
70°-80°	95.6	4.0
80°-90°	31.9	1.4
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°	1078.9	45.6
0°-40°	1600.8	67.7
0°-60°	2079.2	88.0
0°-90°	2363.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1527	
5°	1477	139
15°	1351	381
25°	1214	559
35°	886	522
45°	324	265
55°	239	214
65°	158	157
75°	90	96
85°	29	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1526.6
2.5°	1514.0
5°	1477.4
7.5°	1444.2
10°	1412.3
12.5°	1381.7
15°	1351.1
17.5°	1320.5
20°	1287.9
22.5°	1252.7
25°	1213.5
27.5°	1173.6
30°	1126.4
32.5°	1051.9
35°	885.7
37.5°	645.6
40°	466.1
42.5°	375.7
45°	323.8
47.5°	302.5
50°	282.6
52.5°	260.6
55°	238.7
57.5°	217.4
60°	196.2
62.5°	177.5
65°	157.6
67.5°	140.3
70°	123.0
72.5°	106.4
75°	90.4
77.5°	74.5
80°	59.2
82.5°	43.9
85°	29.3
87.5°	14.6
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	14.56	15.91	14.92	16.22	16.54	14.56	15.91	14.92	16.22	16.54
	3H	16.30	17.51	16.68	17.84	18.20	16.30	17.51	16.68	17.84	18.20
	4H	17.01	18.14	17.41	18.49	18.87	17.01	18.14	17.41	18.49	18.87
	6H	17.58	18.63	18.00	19.00	19.39	17.58	18.63	18.00	19.00	19.39
	8H	17.79	18.79	18.22	19.18	19.58	17.79	18.79	18.22	19.18	19.58
	12H	17.95	18.90	18.38	19.28	19.71	17.95	18.90	18.38	19.28	19.71
4H	2H	15.11	16.24	15.51	16.59	16.98	15.11	16.24	15.51	16.59	16.98
	3H	17.09	18.03	17.50	18.43	18.83	17.09	18.03	17.50	18.43	18.83
	4H	17.93	18.78	18.37	19.20	19.64	17.93	18.78	18.37	19.20	19.64
	6H	18.66	19.39	19.12	19.84	20.30	18.66	19.39	19.12	19.84	20.30
	8H	18.92	19.61	19.39	20.06	20.53	18.92	19.61	19.39	20.06	20.53
	12H	19.14	19.75	19.62	20.23	20.70	19.14	19.75	19.62	20.23	20.70
8H	4H	18.24	18.93	18.71	19.38	19.85	18.24	18.93	18.71	19.38	19.85
	6H	19.11	19.68	19.62	20.17	20.65	19.11	19.68	19.62	20.17	20.65
	8H	19.48	19.98	20.00	20.50	20.99	19.48	19.98	20.00	20.50	20.99
	12H	19.80	20.24	20.31	20.73	21.30	19.80	20.24	20.31	20.73	21.30
12H	4H	18.27	18.89	18.76	19.37	19.84	18.27	18.89	18.76	19.37	19.84
	6H	19.18	19.69	19.70	20.20	20.69	19.18	19.69	19.70	20.20	20.69
	8H	19.62	20.06	20.13	20.55	21.12	19.62	20.06	20.13	20.55	21.12