

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: P866231

Luminaire Tested: PRLX-2002-M-930-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-25L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

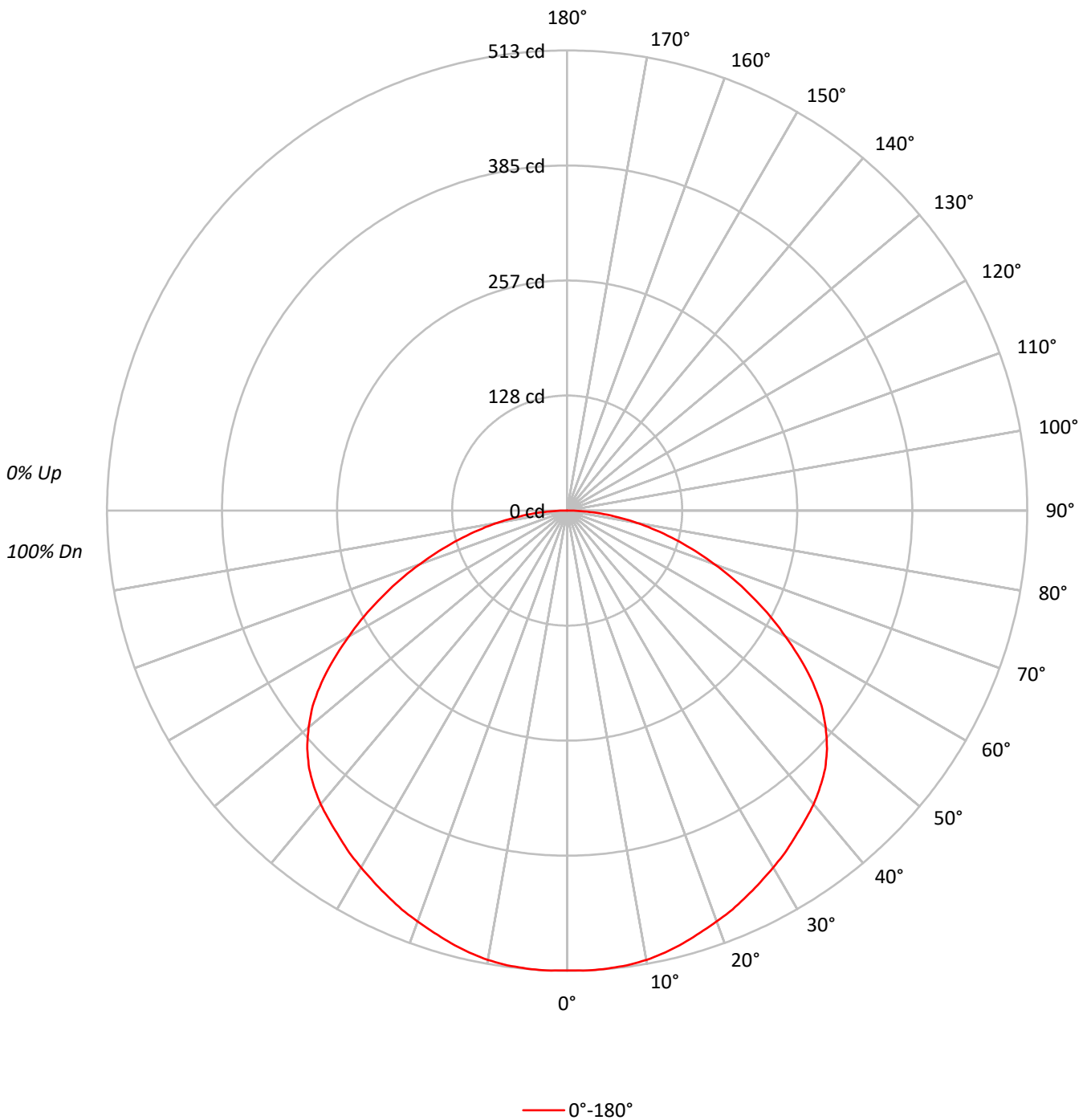
Lumens per Lamp: N/A
Luminaire Lumens: 1697.7 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.333 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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4078
5°	4094
10°	4110
15°	4113
20°	4126
25°	4162
30°	4221
35°	4307
40°	4440
45°	4578
50°	4657
55°	4640
60°	4476
65°	4294
70°	4068
75°	3842
80°	3624
85°	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	2.9
10°-20°	141.1	8.3
20°-30°	219.0	12.9
30°-40°	278.3	16.4
40°-50°	313.0	18.4
50°-60°	297.4	17.5
60°-70°	225.9	13.3
70°-80°	132.7	7.8
80°-90°	41.5	2.4
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°	408.9	24.1
0°-40°	687.2	40.5
0°-60°	1297.6	76.4
0°-90°	1697.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	513	
5°	513	49
15°	499	141
25°	474	219
35°	444	278
45°	407	313
55°	334	297
65°	228	226
75°	125	133
85°	37	42
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	512.6
2.5°	513.3
5°	512.6
7.5°	511.3
10°	508.7
12.5°	504.7
15°	499.4
17.5°	493.4
20°	487.4
22.5°	481.4
25°	474.1
27.5°	466.8
30°	459.5
32.5°	452.1
35°	443.5
37.5°	435.5
40°	427.5
42.5°	417.6
45°	406.9
47.5°	393.0
50°	376.3
52.5°	357.7
55°	334.5
57.5°	308.5
60°	281.3
62.5°	255.3
65°	228.1
67.5°	201.5
70°	174.9
72.5°	149.6
75°	125.0
77.5°	101.7
80°	79.1
82.5°	57.2
85°	37.2
87.5°	18.6
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	17.70	19.40	18.07	19.71	20.03	17.70	19.40	18.07	19.71	20.03
	3H	19.50	21.04	19.88	21.36	21.72	19.50	21.04	19.88	21.36	21.72
	4H	20.19	21.65	20.59	21.99	22.37	20.19	21.65	20.59	21.99	22.37
	6H	20.74	22.09	21.15	22.45	22.84	20.74	22.09	21.15	22.45	22.84
	8H	20.94	22.23	21.36	22.61	23.01	20.94	22.23	21.36	22.61	23.01
	12H	21.08	22.32	21.51	22.70	23.13	21.08	22.32	21.51	22.70	23.13
4H	2H	18.34	19.79	18.74	20.14	20.51	18.34	19.79	18.74	20.14	20.51
	3H	20.36	21.59	20.77	21.98	22.38	20.36	21.59	20.77	21.98	22.38
	4H	21.19	22.30	21.62	22.71	23.15	21.19	22.30	21.62	22.71	23.15
	6H	21.88	22.85	22.33	23.29	23.75	21.88	22.85	22.33	23.29	23.75
	8H	22.13	23.04	22.59	23.48	23.95	22.13	23.04	22.59	23.48	23.95
	12H	22.33	23.15	22.81	23.62	24.09	22.33	23.15	22.81	23.62	24.09
8H	4H	21.53	22.44	21.99	22.88	23.35	21.53	22.44	21.99	22.88	23.35
	6H	22.36	23.12	22.85	23.60	24.08	22.36	23.12	22.85	23.60	24.08
	8H	22.69	23.37	23.20	23.88	24.36	22.69	23.37	23.20	23.88	24.36
	12H	22.98	23.58	23.48	24.07	24.63	22.98	23.58	23.48	24.07	24.63
12H	4H	21.58	22.40	22.06	22.87	23.34	21.58	22.40	22.06	22.87	23.34
	6H	22.43	23.11	22.94	23.62	24.10	22.43	23.11	22.94	23.62	24.10
	8H	22.83	23.43	23.33	23.92	24.48	22.83	23.43	23.33	23.92	24.48