

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: P866167

Luminaire Tested: PRLX-2002-M-927-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866167
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-927-25L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

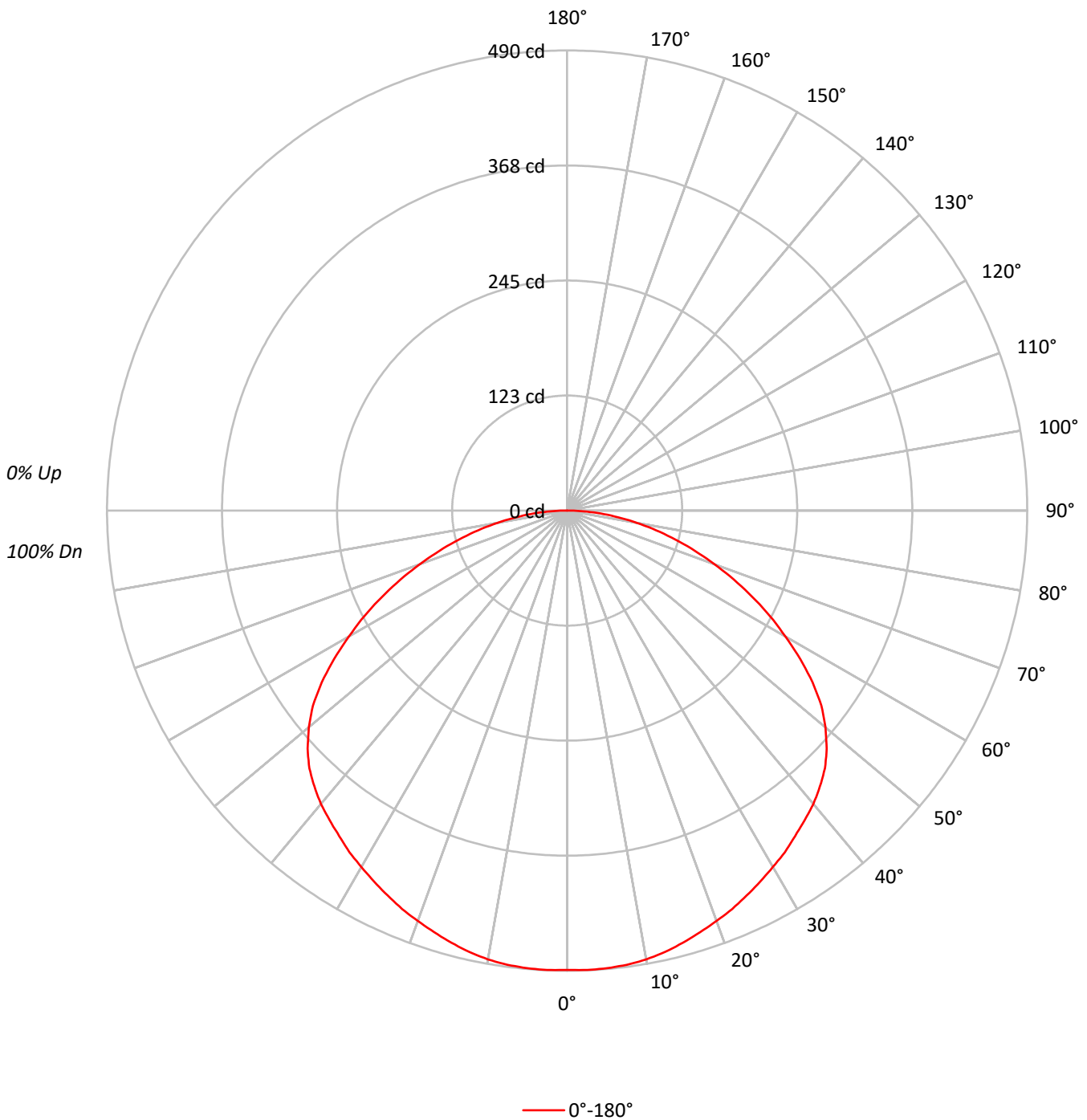
Lumens per Lamp: N/A
Luminaire Lumens: 1619.7 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866167

CATALOG NUMBER: PRLX-2002-M-927-25L-G-U-S-X-X-WHHR-X

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°	3891
5°	3906
10°	3920
15°	3924
20°	3937
25°	3970
30°	4026
35°	4109
40°	4236
45°	4368
50°	4443
55°	4426
60°	4269
65°	4096
70°	3880
75°	3667
80°	3459
85°	3241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	2.9
10°-20°	134.6	8.3
20°-30°	208.9	12.9
30°-40°	265.5	16.4
40°-50°	298.6	18.4
50°-60°	283.7	17.5
60°-70°	215.5	13.3
70°-80°	126.7	7.8
80°-90°	39.6	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°	390.1	24.1
0°-40°	655.6	40.5
0°-60°	1237.9	76.4
0°-90°	1619.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	489	
5°	489	47
15°	476	135
25°	452	209
35°	423	266
45°	388	299
55°	319	284
65°	218	215
75°	119	127
85°	36	40
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	489.1
2.5°	489.7
5°	489.1
7.5°	487.8
10°	485.3
12.5°	481.5
15°	476.4
17.5°	470.7
20°	465.0
22.5°	459.2
25°	452.3
27.5°	445.3
30°	438.3
32.5°	431.3
35°	423.1
37.5°	415.5
40°	407.9
42.5°	398.4
45°	388.2
47.5°	374.9
50°	359.0
52.5°	341.3
55°	319.1
57.5°	294.3
60°	268.3
62.5°	243.6
65°	217.6
67.5°	192.2
70°	166.8
72.5°	142.7
75°	119.3
77.5°	97.1
80°	75.5
82.5°	54.6
85°	35.5
87.5°	17.8
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	17.54	19.23	17.90	19.55	19.86	17.54	19.23	17.90	19.55	19.86
	3H	19.34	20.87	19.71	21.20	21.56	19.34	20.87	19.71	21.20	21.56
	4H	20.03	21.48	20.43	21.83	22.20	20.03	21.48	20.43	21.83	22.20
	6H	20.58	21.93	20.99	22.29	22.68	20.58	21.93	20.99	22.29	22.68
	8H	20.77	22.06	21.20	22.45	22.85	20.77	22.06	21.20	22.45	22.85
	12H	20.92	22.15	21.35	22.53	22.96	20.92	22.15	21.35	22.53	22.96
4H	2H	18.17	19.63	18.57	19.97	20.35	18.17	19.63	18.57	19.97	20.35
	3H	20.20	21.42	20.61	21.82	22.22	20.20	21.42	20.61	21.82	22.22
	4H	21.03	22.14	21.46	22.55	22.98	21.03	22.14	21.46	22.55	22.98
	6H	21.72	22.69	22.17	23.13	23.58	21.72	22.69	22.17	23.13	23.58
	8H	21.97	22.88	22.43	23.32	23.78	21.97	22.88	22.43	23.32	23.78
	12H	22.17	22.99	22.65	23.46	23.93	22.17	22.99	22.65	23.46	23.93
8H	4H	21.37	22.28	21.83	22.72	23.18	21.37	22.28	21.83	22.72	23.18
	6H	22.19	22.96	22.69	23.44	23.91	22.19	22.96	22.69	23.44	23.91
	8H	22.53	23.21	23.03	23.72	24.20	22.53	23.21	23.03	23.72	24.20
	12H	22.81	23.42	23.32	23.91	24.47	22.81	23.42	23.32	23.91	24.47
12H	4H	21.41	22.24	21.89	22.71	23.18	21.41	22.24	21.89	22.71	23.18
	6H	22.27	22.95	22.77	23.46	23.94	22.27	22.95	22.77	23.46	23.94
	8H	22.67	23.27	23.17	23.76	24.32	22.67	23.27	23.17	23.76	24.32