

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: P865989

Luminaire Tested: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

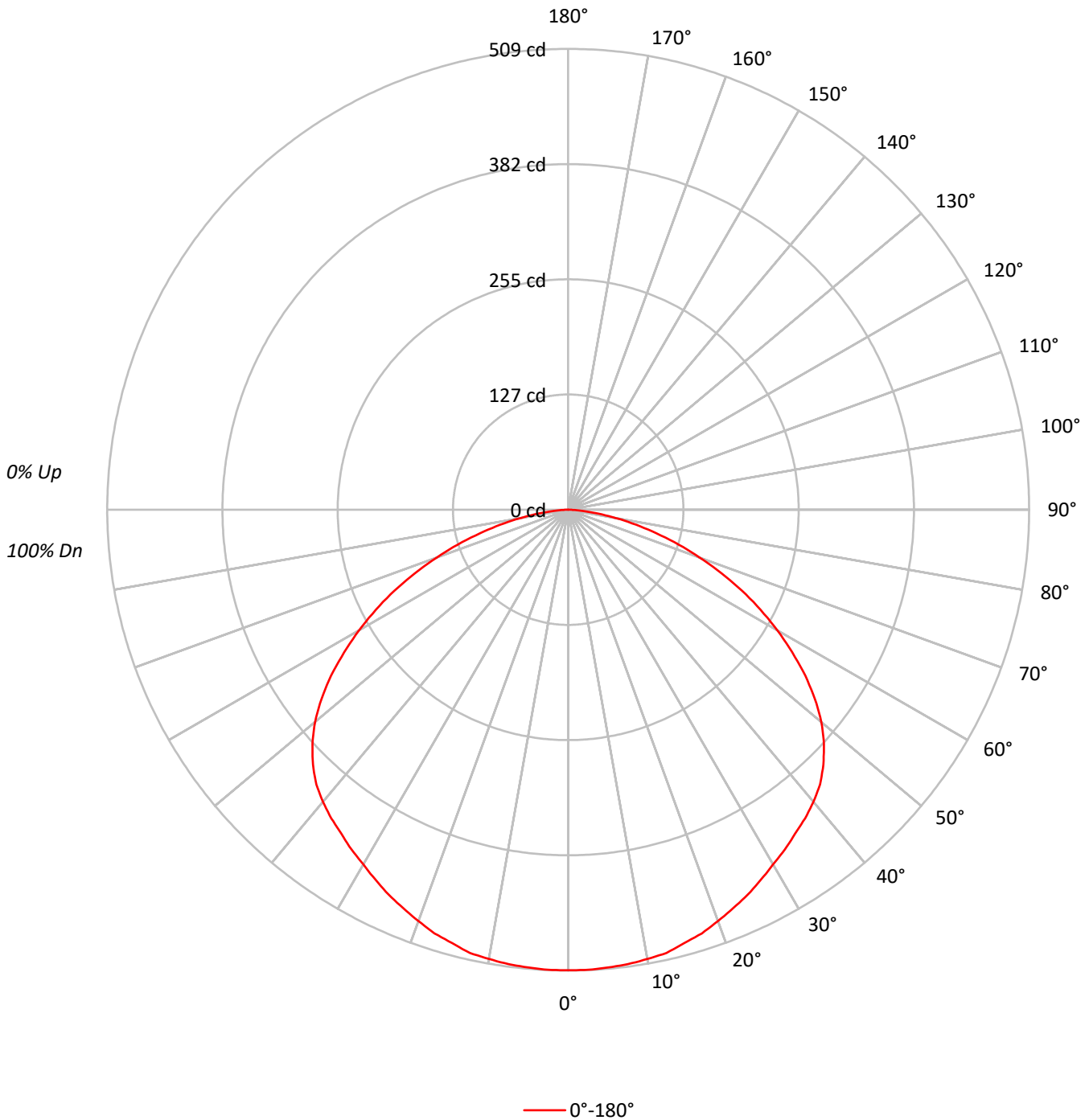
Lumens per Lamp: N/A
Luminaire Lumens: 1609.3 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: P865989

CATALOG NUMBER: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865989

CATALOG NUMBER: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4317
5°	4323
10°	4342
15°	4353
20°	4366
25°	4393
30°	4433
35°	4525
40°	4667
45°	4782
50°	4819
55°	4728
60°	4530
65°	4253
70°	3831
75°	3295
80°	2634
85°	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4819 cd/sqm

TEST NUMBER: P865989

CATALOG NUMBER: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	3.0
10°-20°	140.1	8.7
20°-30°	216.5	13.5
30°-40°	274.2	17.0
40°-50°	306.5	19.0
50°-60°	284.5	17.7
60°-70°	209.0	13.0
70°-80°	107.9	6.7
80°-90°	22.3	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°	404.9	25.2
0°-40°	679.1	42.2
0°-60°	1270.2	78.9
0°-90°	1609.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	509	
5°	508	48
15°	496	140
25°	469	216
35°	437	274
45°	398	307
55°	320	285
65°	212	209
75°	100	108
85°	17	22
90°	0	

TEST NUMBER: P865989

CATALOG NUMBER: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	508.7
2.5°	508.7
5°	507.5
7.5°	506.3
10°	503.9
12.5°	501.5
15°	495.5
17.5°	490.7
20°	483.5
22.5°	476.3
25°	469.2
27.5°	460.8
30°	452.4
32.5°	445.2
35°	436.8
37.5°	429.7
40°	421.3
42.5°	411.7
45°	398.5
47.5°	383.0
50°	365.0
52.5°	343.5
55°	319.6
57.5°	293.2
60°	266.9
62.5°	239.4
65°	211.8
67.5°	183.1
70°	154.4
72.5°	128.1
75°	100.5
77.5°	76.6
80°	53.9
82.5°	33.5
85°	16.8
87.5°	4.8
90°	0.0



TEST NUMBER: P865989
 CATALOG NUMBER: PRLX-2001-M-930-45L-G-U-S-X-X-BRSS-X

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	17.79	19.46	18.16	19.78	20.09	17.79	19.46	18.16	19.78	20.09
	3H	19.43	20.94	19.81	21.27	21.63	19.43	20.94	19.81	21.27	21.63
	4H	19.98	21.40	20.38	21.75	22.12	19.98	21.40	20.38	21.75	22.12
	6H	20.32	21.64	20.73	22.00	22.39	20.32	21.64	20.73	22.00	22.39
	8H	20.40	21.66	20.83	22.05	22.45	20.40	21.66	20.83	22.05	22.45
	12H	20.44	21.64	20.87	22.02	22.45	20.44	21.64	20.87	22.02	22.45
4H	2H	18.40	19.82	18.80	20.17	20.54	18.40	19.82	18.80	20.17	20.54
	3H	20.24	21.43	20.65	21.83	22.23	20.24	21.43	20.65	21.83	22.23
	4H	20.89	21.97	21.33	22.38	22.82	20.89	21.97	21.33	22.38	22.82
	6H	21.34	22.28	21.80	22.72	23.17	21.34	22.28	21.80	22.72	23.17
	8H	21.45	22.33	21.91	22.77	23.24	21.45	22.33	21.91	22.77	23.24
	12H	21.51	22.30	21.99	22.78	23.24	21.51	22.30	21.99	22.78	23.24
8H	4H	21.15	22.02	21.61	22.46	22.93	21.15	22.02	21.61	22.46	22.93
	6H	21.68	22.41	22.17	22.89	23.37	21.68	22.41	22.17	22.89	23.37
	8H	21.83	22.49	22.34	22.99	23.48	21.83	22.49	22.34	22.99	23.48
	12H	21.93	22.51	22.44	23.00	23.56	21.93	22.51	22.44	23.00	23.56
12H	4H	21.16	21.95	21.64	22.43	22.90	21.16	21.95	21.64	22.43	22.90
	6H	21.70	22.36	22.21	22.86	23.35	21.70	22.36	22.21	22.86	23.35
	8H	21.90	22.48	22.41	22.97	23.53	21.90	22.48	22.41	22.97	23.53