

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: P865993

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-45L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

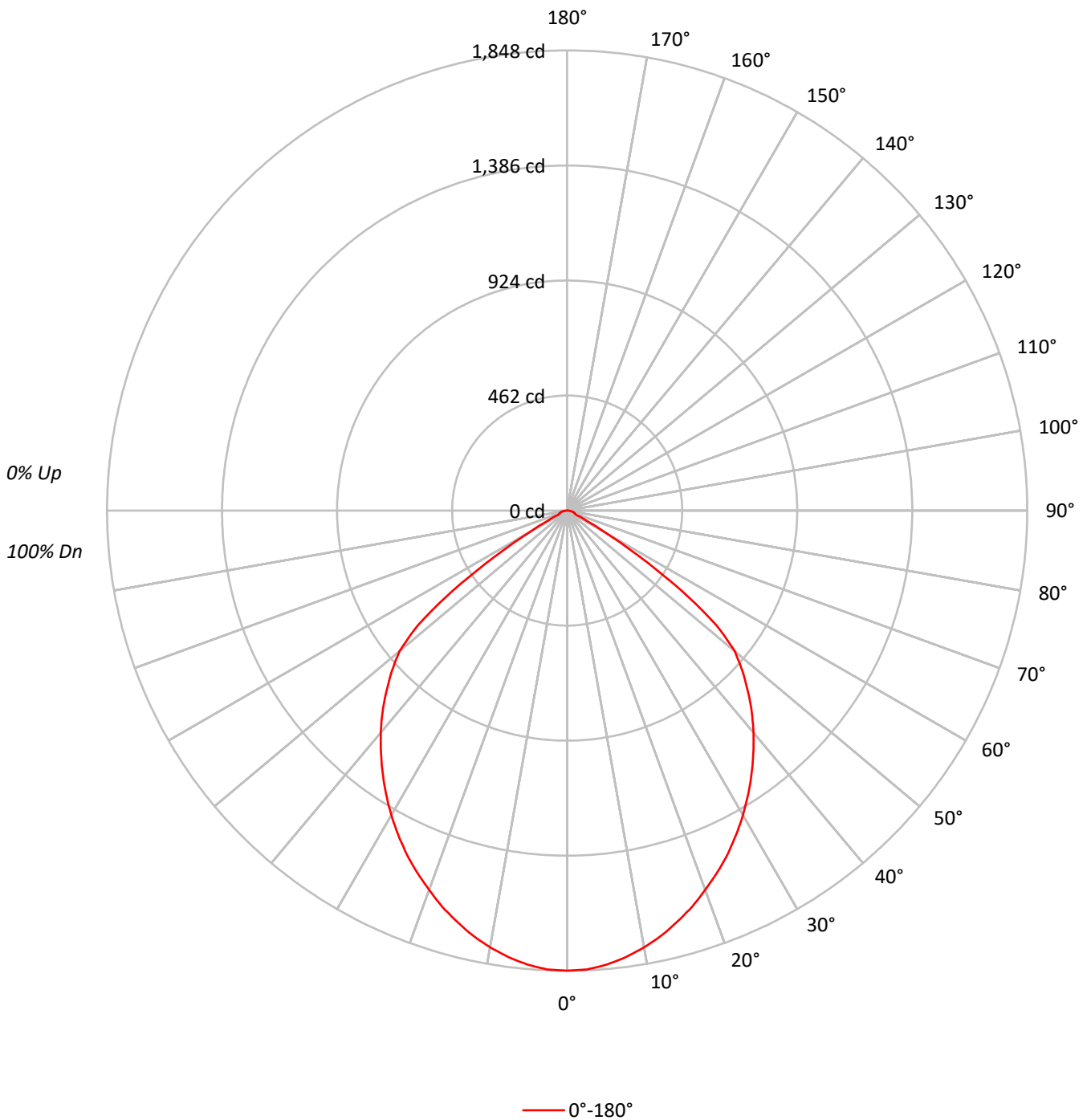
Lumens per Lamp: N/A
Luminaire Lumens: 3543.8 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: P865993

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

Luminous Intensity Polar Plot





TEST NUMBER: P865993

CATALOG NUMBER: PRLX-2001-M-930-45L-L-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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15681
5°	15589
10°	15346
15°	15015
20°	14634
25°	14266
30°	13839
35°	13378
40°	12900
45°	12324
50°	11598
55°	8287
60°	3087
65°	817
70°	801
75°	862
80°	933
85°	935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12324 cd/sqm

TEST NUMBER: P865993

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	4.9
10°-20°	481.5	13.6
20°-30°	701.0	19.8
30°-40°	807.4	22.8
40°-50°	791.0	22.3
50°-60°	485.7	13.7
60°-70°	66.1	1.9
70°-80°	27.6	0.8
80°-90°	10.4	0.3
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°	1355.6	38.3
0°-40°	2163.0	61.0
0°-60°	3439.6	97.1
0°-90°	3543.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3543.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1848	
5°	1830	173
15°	1709	481
25°	1524	701
35°	1291	807
45°	1027	791
55°	560	486
65°	41	66
75°	26	28
85°	10	10
90°	0	

TEST NUMBER: P865993

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	1847.9
2.5°	1844.3
5°	1830.0
7.5°	1808.4
10°	1780.9
12.5°	1748.6
15°	1709.1
17.5°	1668.4
20°	1620.5
22.5°	1573.9
25°	1523.6
27.5°	1468.5
30°	1412.3
32.5°	1352.4
35°	1291.4
37.5°	1228.0
40°	1164.5
42.5°	1097.5
45°	1026.9
47.5°	955.1
50°	878.5
52.5°	755.2
55°	560.1
57.5°	348.3
60°	181.9
62.5°	88.6
65°	40.7
67.5°	33.5
70°	32.3
72.5°	29.9
75°	26.3
77.5°	22.7
80°	19.1
82.5°	14.4
85°	9.6
87.5°	4.8
90°	0.0



TEST NUMBER: P865993
 CATALOG NUMBER: PRLX-2001-M-930-45L-L-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	16.39	17.78	16.75	18.10	18.41	16.39	17.78	16.75	18.10	18.41
	3H	16.33	17.55	16.71	17.88	18.25	16.33	17.55	16.71	17.88	18.25
	4H	16.31	17.45	16.71	17.80	18.18	16.31	17.45	16.71	17.80	18.18
	6H	16.29	17.34	16.71	17.71	18.10	16.29	17.34	16.71	17.71	18.10
	8H	16.28	17.27	16.71	17.66	18.07	16.28	17.27	16.71	17.66	18.07
	12H	16.27	17.21	16.70	17.60	18.03	16.27	17.21	16.70	17.60	18.03
4H	2H	16.22	17.36	16.63	17.71	18.10	16.22	17.36	16.63	17.71	18.10
	3H	16.20	17.12	16.61	17.52	17.92	16.20	17.12	16.61	17.52	17.92
	4H	16.20	17.01	16.63	17.43	17.87	16.20	17.01	16.63	17.43	17.87
	6H	16.22	16.92	16.68	17.37	17.84	16.22	16.92	16.68	17.37	17.84
	8H	16.21	16.87	16.68	17.32	17.79	16.21	16.87	16.68	17.32	17.79
	12H	16.21	16.80	16.70	17.28	17.75	16.21	16.80	16.70	17.28	17.75
8H	4H	16.11	16.77	16.58	17.21	17.68	16.11	16.77	16.58	17.21	17.68
	6H	16.15	16.69	16.65	17.19	17.67	16.15	16.69	16.65	17.19	17.67
	8H	16.16	16.65	16.68	17.17	17.66	16.16	16.65	16.68	17.17	17.66
	12H	16.18	16.63	16.69	17.12	17.69	16.18	16.63	16.69	17.12	17.69
12H	4H	16.07	16.66	16.56	17.14	17.61	16.07	16.66	16.56	17.14	17.61
	6H	16.10	16.60	16.62	17.11	17.60	16.10	16.60	16.62	17.11	17.60
	8H	16.14	16.59	16.65	17.08	17.65	16.14	16.59	16.65	17.08	17.65