

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: P866845

Luminaire Tested: PRLX-2001-L-935-83L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-83L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

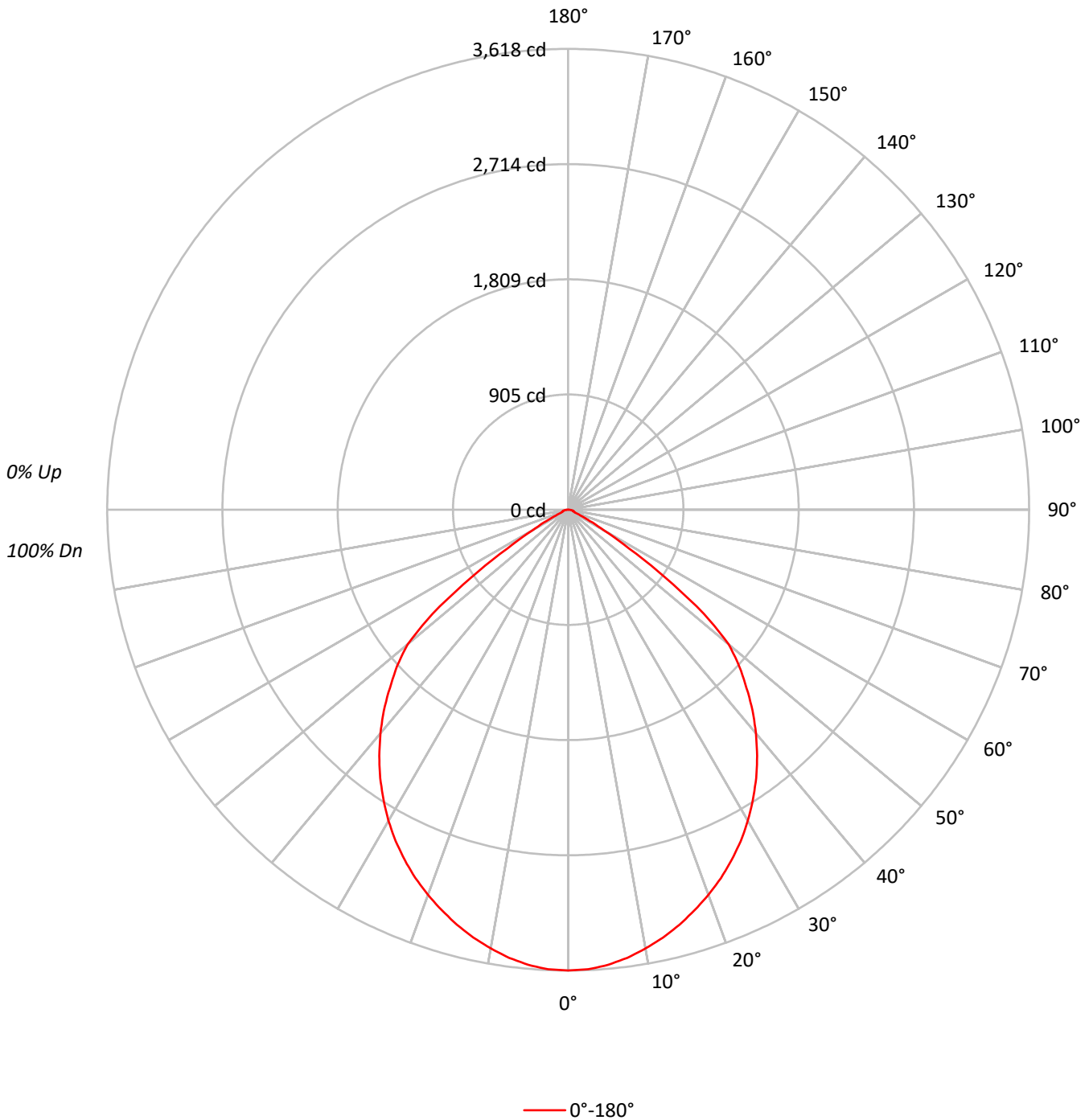
Lumens per Lamp: N/A
Luminaire Lumens: 6857.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P866845

CATALOG NUMBER: PRLX-2001-L-935-83L-L-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866845

CATALOG NUMBER: PRLX-2001-L-935-83L-L-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	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19777
5°	19683
10°	19414
15°	19087
20°	18722
25°	18307
30°	17801
35°	17159
40°	16356
45°	15304
50°	13990
55°	8877
60°	3521
65°	1347
70°	815
75°	889
80°	1001
85°	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15304 cd/sqm

TEST NUMBER: P866845

CATALOG NUMBER: PRLX-2001-L-935-83L-L-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	5.0
10°-20°	950.4	13.9
20°-30°	1396.9	20.4
30°-40°	1605.2	23.4
40°-50°	1525.0	22.2
50°-60°	845.6	12.3
60°-70°	132.0	1.9
70°-80°	44.3	0.6
80°-90°	18.4	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°	2686.9	39.2
0°-40°	4292.1	62.6
0°-60°	6662.7	97.2
0°-90°	6857.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6857.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3618	
5°	3587	340
15°	3372	950
25°	3035	1397
35°	2571	1605
45°	1980	1525
55°	931	846
65°	104	132
75°	42	44
85°	18	18
90°	0	

TEST NUMBER: P866845

CATALOG NUMBER: PRLX-2001-L-935-83L-L-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3617.7
2.5°	3611.8
5°	3586.7
7.5°	3549.0
10°	3497.3
12.5°	3440.4
15°	3372.5
17.5°	3297.9
20°	3218.1
22.5°	3131.7
25°	3034.9
27.5°	2933.0
30°	2820.0
32.5°	2698.9
35°	2571.1
37.5°	2435.9
40°	2291.9
42.5°	2142.0
45°	1979.5
47.5°	1822.1
50°	1644.9
52.5°	1342.8
55°	931.4
57.5°	566.5
60°	322.0
62.5°	191.3
65°	104.1
67.5°	56.9
70°	51.0
72.5°	46.5
75°	42.1
77.5°	37.7
80°	31.8
82.5°	25.1
85°	17.7
87.5°	8.9
90°	0.0



TEST NUMBER: P866845
 CATALOG NUMBER: PRLX-2001-L-935-83L-L-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	16.00	17.37	16.36	17.69	18.00	16.00	17.37	16.36	17.69	18.00
	3H	15.93	17.14	16.31	17.47	17.84	15.93	17.14	16.31	17.47	17.84
	4H	15.91	17.03	16.31	17.38	17.77	15.91	17.03	16.31	17.38	17.77
	6H	15.90	16.93	16.31	17.30	17.69	15.90	16.93	16.31	17.30	17.69
	8H	15.89	16.86	16.32	17.25	17.66	15.89	16.86	16.32	17.25	17.66
	12H	15.88	16.81	16.31	17.19	17.62	15.88	16.81	16.31	17.19	17.62
4H	2H	15.87	16.99	16.27	17.34	17.72	15.87	16.99	16.27	17.34	17.72
	3H	15.83	16.74	16.25	17.14	17.55	15.83	16.74	16.25	17.14	17.55
	4H	15.83	16.63	16.26	17.05	17.49	15.83	16.63	16.26	17.05	17.49
	6H	15.85	16.55	16.31	16.99	17.46	15.85	16.55	16.31	16.99	17.46
	8H	15.85	16.50	16.32	16.95	17.42	15.85	16.50	16.32	16.95	17.42
	12H	15.86	16.43	16.34	16.91	17.39	15.86	16.43	16.34	16.91	17.39
8H	4H	15.74	16.38	16.20	16.83	17.30	15.74	16.38	16.20	16.83	17.30
	6H	15.78	16.31	16.28	16.81	17.29	15.78	16.31	16.28	16.81	17.29
	8H	15.80	16.28	16.32	16.80	17.29	15.80	16.28	16.32	16.80	17.29
	12H	15.83	16.27	16.35	16.77	17.33	15.83	16.27	16.35	16.77	17.33
12H	4H	15.70	16.27	16.18	16.76	17.23	15.70	16.27	16.18	16.76	17.23
	6H	15.73	16.22	16.25	16.73	17.23	15.73	16.22	16.25	16.73	17.23
	8H	15.78	16.22	16.30	16.71	17.28	15.78	16.22	16.30	16.71	17.28