

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: P865897

Luminaire Tested: PRLX-2001-M-927-07L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865897
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-927-07L-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 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

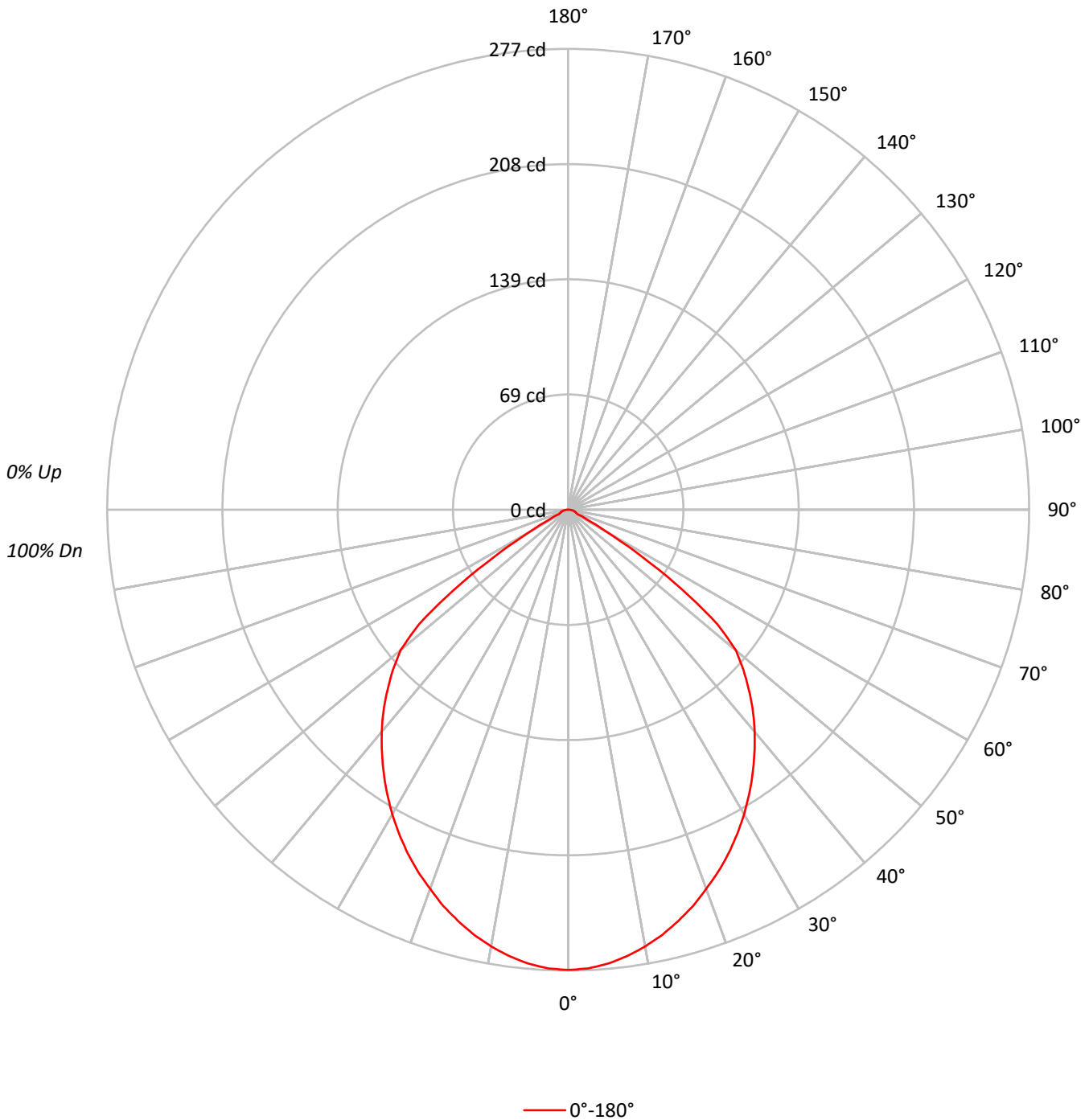
Lumens per Lamp: N/A
Luminaire Lumens: 530.4 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: P865897

CATALOG NUMBER: PRLX-2001-M-927-07L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865897

CATALOG NUMBER: PRLX-2001-M-927-07L-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	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	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	43	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°	2347
5°	2333
10°	2296
15°	2247
20°	2190
25°	2135
30°	2071
35°	2002
40°	1931
45°	1845
50°	1736
55°	1240
60°	462
65°	122
70°	119
75°	128
80°	142
85°	136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1845 cd/sqm

TEST NUMBER: P865897

CATALOG NUMBER: PRLX-2001-M-927-07L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	4.9
10°-20°	72.1	13.6
20°-30°	104.9	19.8
30°-40°	120.8	22.8
40°-50°	118.4	22.3
50°-60°	72.7	13.7
60°-70°	9.9	1.9
70°-80°	4.1	0.8
80°-90°	1.5	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°	202.9	38.3
0°-40°	323.7	61.0
0°-60°	514.8	97.1
0°-90°	530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	277	
5°	274	26
15°	256	72
25°	228	105
35°	193	121
45°	154	118
55°	84	73
65°	6	10
75°	4	4
85°	1	2
90°	0	

TEST NUMBER: P865897

CATALOG NUMBER: PRLX-2001-M-927-07L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	276.6
2.5°	276.0
5°	273.9
7.5°	270.7
10°	266.5
12.5°	261.7
15°	255.8
17.5°	249.7
20°	242.5
22.5°	235.6
25°	228.0
27.5°	219.8
30°	211.4
32.5°	202.4
35°	193.3
37.5°	183.8
40°	174.3
42.5°	164.3
45°	153.7
47.5°	142.9
50°	131.5
52.5°	113.0
55°	83.8
57.5°	52.1
60°	27.2
62.5°	13.3
65°	6.1
67.5°	5.0
70°	4.8
72.5°	4.5
75°	3.9
77.5°	3.4
80°	2.9
82.5°	2.1
85°	1.4
87.5°	0.7
90°	0.0



TEST NUMBER: P865897
 CATALOG NUMBER: PRLX-2001-M-927-07L-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	9.78	11.18	10.15	11.49	11.81	9.78	11.18	10.15	11.49	11.81
	3H	9.72	10.95	10.10	11.28	11.64	9.72	10.95	10.10	11.28	11.64
	4H	9.70	10.85	10.11	11.20	11.58	9.70	10.85	10.11	11.20	11.58
	6H	9.69	10.74	10.11	11.11	11.50	9.69	10.74	10.11	11.11	11.50
	8H	9.68	10.67	10.11	11.06	11.46	9.68	10.67	10.11	11.06	11.46
	12H	9.66	10.61	10.09	10.99	11.42	9.66	10.61	10.09	10.99	11.42
4H	2H	9.62	10.76	10.02	11.11	11.49	9.62	10.76	10.02	11.11	11.49
	3H	9.59	10.51	10.01	10.92	11.32	9.59	10.51	10.01	10.92	11.32
	4H	9.59	10.41	10.03	10.83	11.27	9.59	10.41	10.03	10.83	11.27
	6H	9.62	10.32	10.08	10.77	11.23	9.62	10.32	10.08	10.77	11.23
	8H	9.61	10.27	10.08	10.72	11.19	9.61	10.27	10.08	10.72	11.19
	12H	9.61	10.19	10.09	10.67	11.15	9.61	10.19	10.09	10.67	11.15
8H	4H	9.50	10.16	9.97	10.61	11.08	9.50	10.16	9.97	10.61	11.08
	6H	9.54	10.09	10.05	10.58	11.07	9.54	10.09	10.05	10.58	11.07
	8H	9.55	10.05	10.07	10.56	11.05	9.55	10.05	10.07	10.56	11.05
	12H	9.57	10.02	10.09	10.51	11.08	9.57	10.02	10.09	10.51	11.08
12H	4H	9.47	10.05	9.95	10.54	11.01	9.47	10.05	9.95	10.54	11.01
	6H	9.50	9.99	10.02	10.51	11.00	9.50	9.99	10.02	10.51	11.00
	8H	9.54	9.98	10.05	10.48	11.05	9.54	9.98	10.05	10.48	11.05