

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: P865601

Luminaire Tested: PRLX-2002-S-927-20L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-20L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

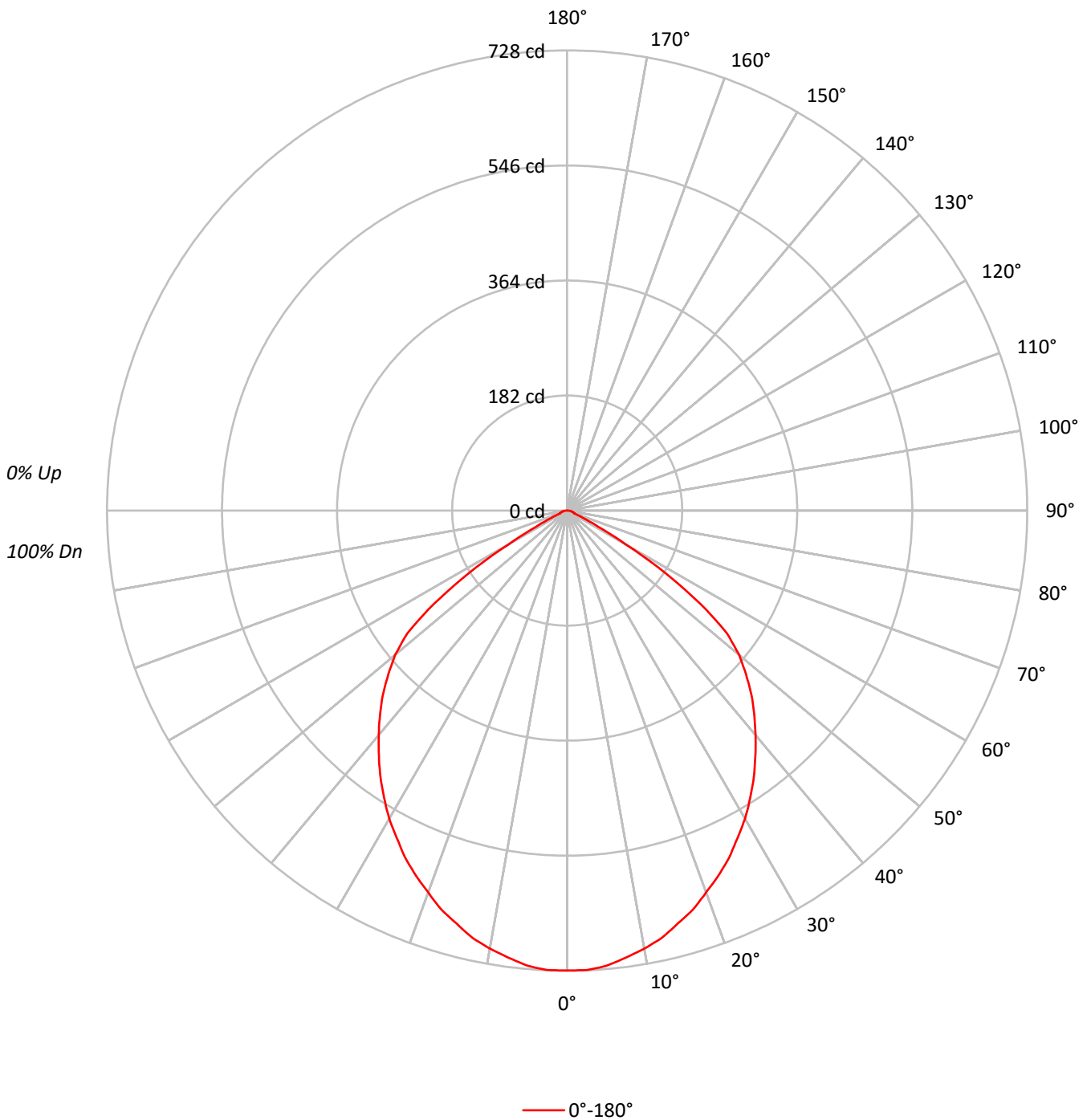
Lumens per Lamp: N/A
Luminaire Lumens: 1449.6 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: P865601

CATALOG NUMBER: PRLX-2002-S-927-20L-L-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865601

CATALOG NUMBER: PRLX-2002-S-927-20L-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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13667
5°	13629
10°	13421
15°	13154
20°	12849
25°	12562
30°	12209
35°	11807
40°	11370
45°	10961
50°	10374
55°	8433
60°	4024
65°	1280
70°	615
75°	697
80°	692
85°	1035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10961 cd/sqm

TEST NUMBER: P865601

CATALOG NUMBER: PRLX-2002-S-927-20L-L-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	4.7
10°-20°	190.7	13.2
20°-30°	278.7	19.2
30°-40°	321.7	22.2
40°-50°	317.1	21.9
50°-60°	220.4	15.2
60°-70°	38.3	2.6
70°-80°	9.9	0.7
80°-90°	4.4	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°	537.8	37.1
0°-40°	859.5	59.3
0°-60°	1397.0	96.4
0°-90°	1449.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	728	
5°	723	68
15°	676	191
25°	606	279
35°	515	322
45°	413	317
55°	258	220
65°	29	38
75°	10	10
85°	5	4
90°	0	

TEST NUMBER: P865601

CATALOG NUMBER: PRLX-2002-S-927-20L-L-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	727.6
2.5°	727.6
5°	722.8
7.5°	713.2
10°	703.6
12.5°	692.4
15°	676.4
17.5°	662.0
20°	642.8
22.5°	625.3
25°	606.1
27.5°	583.7
30°	562.9
32.5°	538.9
35°	514.9
37.5°	489.3
40°	463.7
42.5°	438.2
45°	412.6
47.5°	383.8
50°	355.0
52.5°	318.2
55°	257.5
57.5°	185.5
60°	107.1
62.5°	56.0
65°	28.8
67.5°	12.8
70°	11.2
72.5°	11.2
75°	9.6
77.5°	8.0
80°	6.4
82.5°	6.4
85°	4.8
87.5°	1.6
90°	0.0



TEST NUMBER: P865601
 CATALOG NUMBER: PRLX-2002-S-927-20L-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	17.87	19.30	18.24	19.61	19.92	17.87	19.30	18.24	19.61	19.92
	3H	17.78	19.03	18.16	19.36	19.73	17.78	19.03	18.16	19.36	19.73
	4H	17.74	18.90	18.14	19.25	19.63	17.74	18.90	18.14	19.25	19.63
	6H	17.69	18.76	18.11	19.13	19.52	17.69	18.76	18.11	19.13	19.52
	8H	17.67	18.68	18.10	19.07	19.48	17.67	18.68	18.10	19.07	19.48
	12H	17.65	18.62	18.08	19.00	19.43	17.65	18.62	18.08	19.00	19.43
4H	2H	17.74	18.90	18.14	19.25	19.63	17.74	18.90	18.14	19.25	19.63
	3H	17.66	18.60	18.07	19.00	19.41	17.66	18.60	18.07	19.00	19.41
	4H	17.62	18.45	18.05	18.87	19.31	17.62	18.45	18.05	18.87	19.31
	6H	17.59	18.31	18.05	18.75	19.22	17.59	18.31	18.05	18.75	19.22
	8H	17.56	18.24	18.03	18.68	19.15	17.56	18.24	18.03	18.68	19.15
	12H	17.56	18.15	18.04	18.64	19.11	17.56	18.15	18.04	18.64	19.11
8H	4H	17.51	18.18	17.98	18.63	19.10	17.51	18.18	17.98	18.63	19.10
	6H	17.47	18.03	17.97	18.52	19.00	17.47	18.03	17.97	18.52	19.00
	8H	17.46	17.96	17.97	18.47	18.97	17.46	17.96	17.97	18.47	18.97
	12H	17.47	17.92	17.98	18.42	18.99	17.47	17.92	17.98	18.42	18.99
12H	4H	17.47	18.07	17.96	18.55	19.02	17.47	18.07	17.96	18.55	19.02
	6H	17.42	17.92	17.94	18.44	18.93	17.42	17.92	17.94	18.44	18.93
	8H	17.43	17.88	17.94	18.38	18.95	17.43	17.88	17.94	18.38	18.95