

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: P866453

Luminaire Tested: PRLX-2004-M-927-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

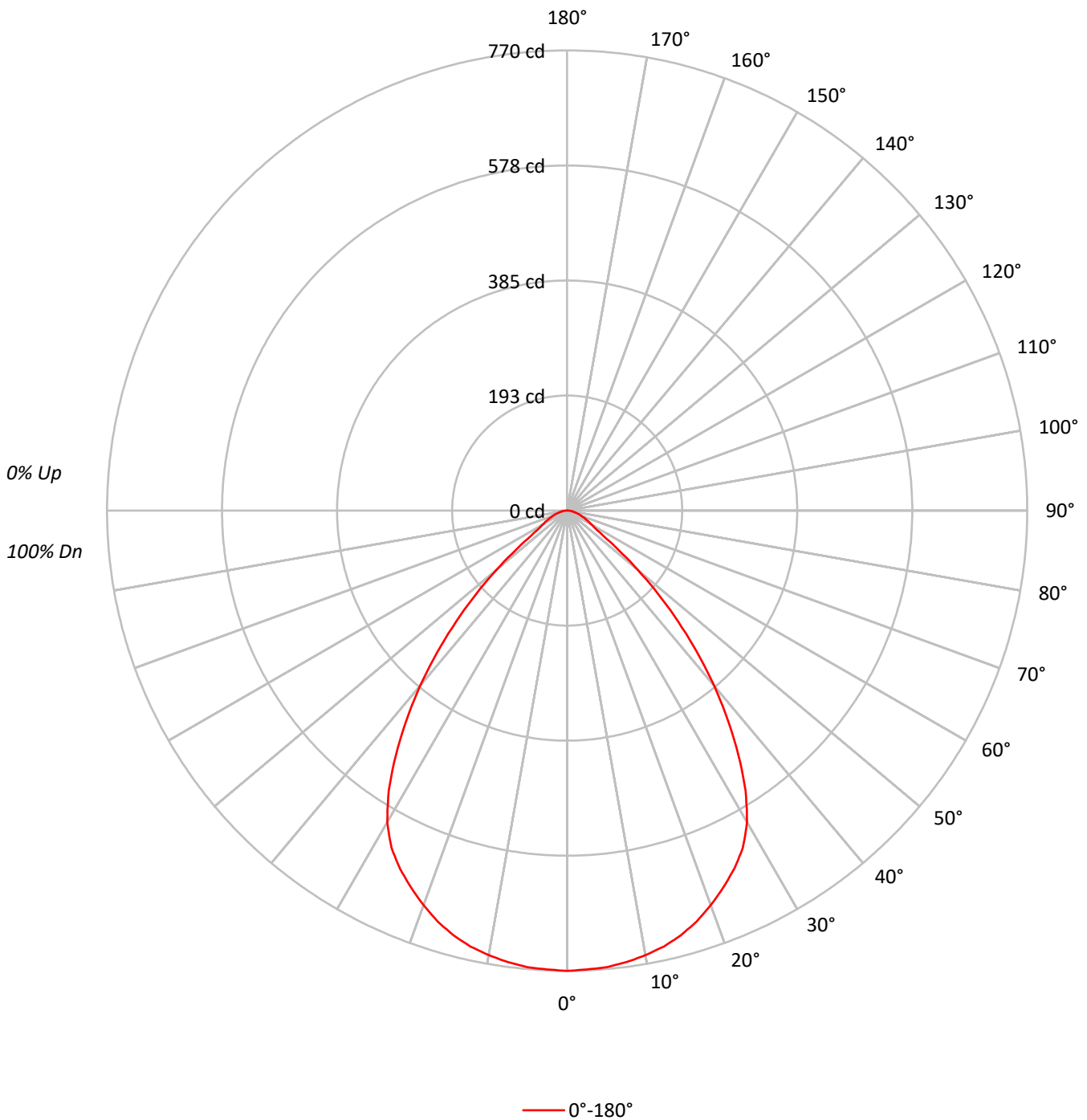
Lumens per Lamp: N/A
Luminaire Lumens: 1229.6 lumens
Efficiency: N/A
Efficacy: 21.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866453

CATALOG NUMBER: PRLX-2004-M-927-65L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P866453

CATALOG NUMBER: PRLX-2004-M-927-65L-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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69	76	72	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6128
5°	6125
10°	6102
15°	6059
20°	5948
25°	5805
30°	5530
35°	4853
40°	3973
45°	2950
50°	1899
55°	1029
60°	761
65°	651
70°	575
75°	507
80°	454
85°	447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2950 cd/sqm

TEST NUMBER: P866453

CATALOG NUMBER: PRLX-2004-M-927-65L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	5.9
10°-20°	207.0	16.8
20°-30°	303.4	24.7
30°-40°	309.8	25.2
40°-50°	202.4	16.5
50°-60°	75.3	6.1
60°-70°	35.0	2.8
70°-80°	18.0	1.5
80°-90°	5.8	0.5
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°	583.2	47.4
0°-40°	893.0	72.6
0°-60°	1170.7	95.2
0°-90°	1229.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1229.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	770	
5°	767	73
15°	736	207
25°	661	303
35°	500	310
45°	262	202
55°	74	75
65°	35	35
75°	16	18
85°	5	6
90°	0	

TEST NUMBER: P866453

CATALOG NUMBER: PRLX-2004-M-927-65L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	770.2
2.5°	768.5
5°	766.9
7.5°	761.9
10°	755.3
12.5°	747.1
15°	735.6
17.5°	720.7
20°	702.6
22.5°	682.8
25°	661.3
27.5°	636.6
30°	602.0
32.5°	555.8
35°	499.7
37.5°	442.0
40°	382.6
42.5°	321.6
45°	262.2
47.5°	206.2
50°	153.4
52.5°	108.8
55°	74.2
57.5°	56.1
60°	47.8
62.5°	41.2
65°	34.6
67.5°	29.7
70°	24.7
72.5°	21.4
75°	16.5
77.5°	13.2
80°	9.9
82.5°	8.2
85°	4.9
87.5°	3.3
90°	0.0



TEST NUMBER: P866453
 CATALOG NUMBER: PRLX-2004-M-927-65L-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	7.51	8.76	7.87	9.08	9.39	7.51	8.76	7.87	9.08	9.39
	3H	8.70	9.81	9.08	10.14	10.50	8.70	9.81	9.08	10.14	10.50
	4H	9.14	10.17	9.54	10.52	10.90	9.14	10.17	9.54	10.52	10.90
	6H	9.44	10.39	9.86	10.76	11.16	9.44	10.39	9.86	10.76	11.16
	8H	9.57	10.47	10.00	10.86	11.26	9.57	10.47	10.00	10.86	11.26
	12H	9.66	10.51	10.09	10.90	11.33	9.66	10.51	10.09	10.90	11.33
4H	2H	7.87	8.90	8.28	9.26	9.64	7.87	8.90	8.28	9.26	9.64
	3H	9.28	10.13	9.70	10.53	10.93	9.28	10.13	9.70	10.53	10.93
	4H	9.83	10.58	10.26	11.00	11.44	9.83	10.58	10.26	11.00	11.44
	6H	10.25	10.90	10.72	11.35	11.81	10.25	10.90	10.72	11.35	11.81
	8H	10.43	11.03	10.90	11.48	11.95	10.43	11.03	10.90	11.48	11.95
	12H	10.56	11.09	11.05	11.58	12.05	10.56	11.09	11.05	11.58	12.05
8H	4H	9.99	10.60	10.46	11.04	11.52	9.99	10.60	10.46	11.04	11.52
	6H	10.53	11.02	11.03	11.52	12.00	10.53	11.02	11.03	11.52	12.00
	8H	10.79	11.23	11.31	11.75	12.24	10.79	11.23	11.31	11.75	12.24
	12H	11.00	11.39	11.52	11.89	12.46	11.00	11.39	11.52	11.89	12.46
12H	4H	9.99	10.52	10.47	11.00	11.48	9.99	10.52	10.47	11.00	11.48
	6H	10.55	10.99	11.07	11.51	12.00	10.55	10.99	11.07	11.51	12.00
	8H	10.87	11.26	11.39	11.76	12.33	10.87	11.26	11.39	11.76	12.33