

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: P865878

Luminaire Tested: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

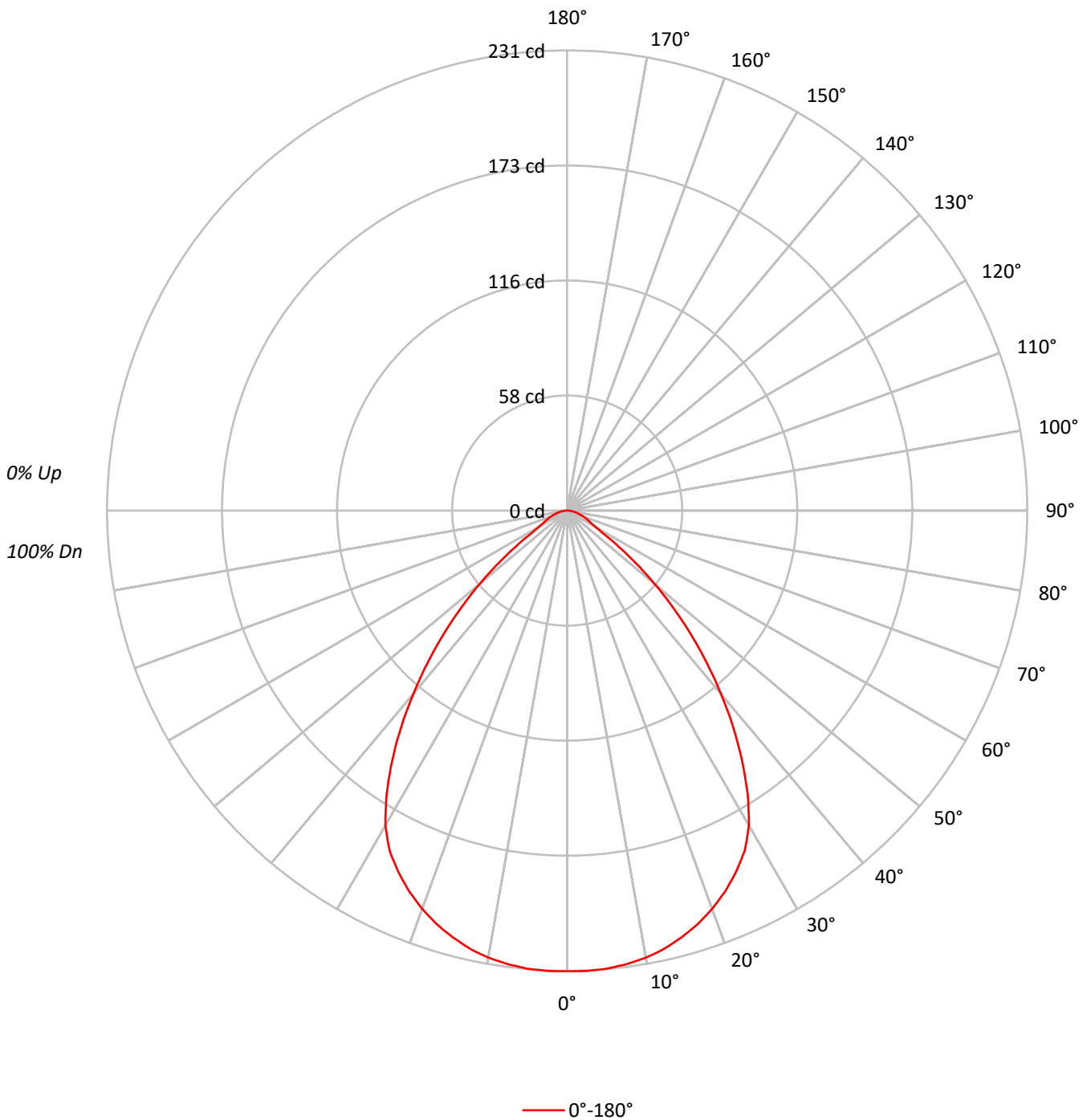
Lumens per Lamp: N/A
Luminaire Lumens: 388.1 lumens
Efficiency: N/A
Efficacy: 17.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865878

CATALOG NUMBER: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865878

CATALOG NUMBER: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-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	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3773
5°	3779
10°	3774
15°	3745
20°	3694
25°	3606
30°	3437
35°	3048
40°	2557
45°	2021
50°	1454
55°	893
60°	525
65°	448
70°	401
75°	353
80°	338
85°	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2021 cd/sqm

TEST NUMBER: P865878

CATALOG NUMBER: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.9	5.7
10°-20°	62.5	16.1
20°-30°	91.9	23.7
30°-40°	95.0	24.5
40°-50°	67.5	17.4
50°-60°	29.6	7.6
60°-70°	11.7	3.0
70°-80°	6.1	1.6
80°-90°	1.8	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°	176.4	45.4
0°-40°	271.4	69.9
0°-60°	368.5	94.9
0°-90°	388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	231	
5°	231	22
15°	222	63
25°	200	92
35°	153	95
45°	88	68
55°	31	30
65°	12	12
75°	6	6
85°	2	2
90°	0	

TEST NUMBER: P865878

CATALOG NUMBER: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	231.3
2.5°	231.3
5°	230.8
7.5°	229.6
10°	227.9
12.5°	225.3
15°	221.8
17.5°	217.7
20°	212.8
22.5°	207.0
25°	200.4
27.5°	192.8
30°	182.5
32.5°	168.6
35°	153.1
37.5°	136.8
40°	120.1
42.5°	103.7
45°	87.6
47.5°	72.2
50°	57.3
52.5°	43.6
55°	31.4
57.5°	21.7
60°	16.1
62.5°	13.5
65°	11.6
67.5°	9.9
70°	8.4
72.5°	6.9
75°	5.6
77.5°	4.7
80°	3.6
82.5°	2.6
85°	1.7
87.5°	0.7
90°	0.0

TEST NUMBER: P865878
 CATALOG NUMBER: PRLX-2004-S-940-20L-G-U-S-X-X-GREY-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	7.30	8.60	7.67	8.91	9.22	7.30	8.60	7.67	8.91	9.22
	3H	8.23	9.37	8.61	9.70	10.07	8.23	9.37	8.61	9.70	10.07
	4H	8.58	9.64	8.98	9.99	10.38	8.58	9.64	8.98	9.99	10.38
	6H	8.88	9.86	9.30	10.23	10.62	8.88	9.86	9.30	10.23	10.62
	8H	8.98	9.90	9.41	10.29	10.70	8.98	9.90	9.41	10.29	10.70
	12H	9.05	9.93	9.48	10.31	10.74	9.05	9.93	9.48	10.31	10.74
4H	2H	7.54	8.60	7.94	8.96	9.34	7.54	8.60	7.94	8.96	9.34
	3H	8.69	9.56	9.10	9.96	10.36	8.69	9.56	9.10	9.96	10.36
	4H	9.16	9.93	9.59	10.35	10.79	9.16	9.93	9.59	10.35	10.79
	6H	9.59	10.25	10.05	10.70	11.17	9.59	10.25	10.05	10.70	11.17
	8H	9.73	10.35	10.20	10.80	11.27	9.73	10.35	10.20	10.80	11.27
	12H	9.84	10.39	10.33	10.87	11.35	9.84	10.39	10.33	10.87	11.35
8H	4H	9.30	9.92	9.77	10.37	10.84	9.30	9.92	9.77	10.37	10.84
	6H	9.84	10.35	10.35	10.85	11.33	9.84	10.35	10.35	10.85	11.33
	8H	10.06	10.51	10.58	11.03	11.52	10.06	10.51	10.58	11.03	11.52
	12H	10.24	10.65	10.76	11.15	11.72	10.24	10.65	10.76	11.15	11.72
12H	4H	9.30	9.85	9.78	10.33	10.80	9.30	9.85	9.78	10.33	10.80
	6H	9.86	10.32	10.38	10.84	11.33	9.86	10.32	10.38	10.84	11.33
	8H	10.13	10.53	10.64	11.03	11.60	10.13	10.53	10.64	11.03	11.60