

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: P865854

Luminaire Tested: PRLX-2004-S-940-05L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865854
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-940-05L-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 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

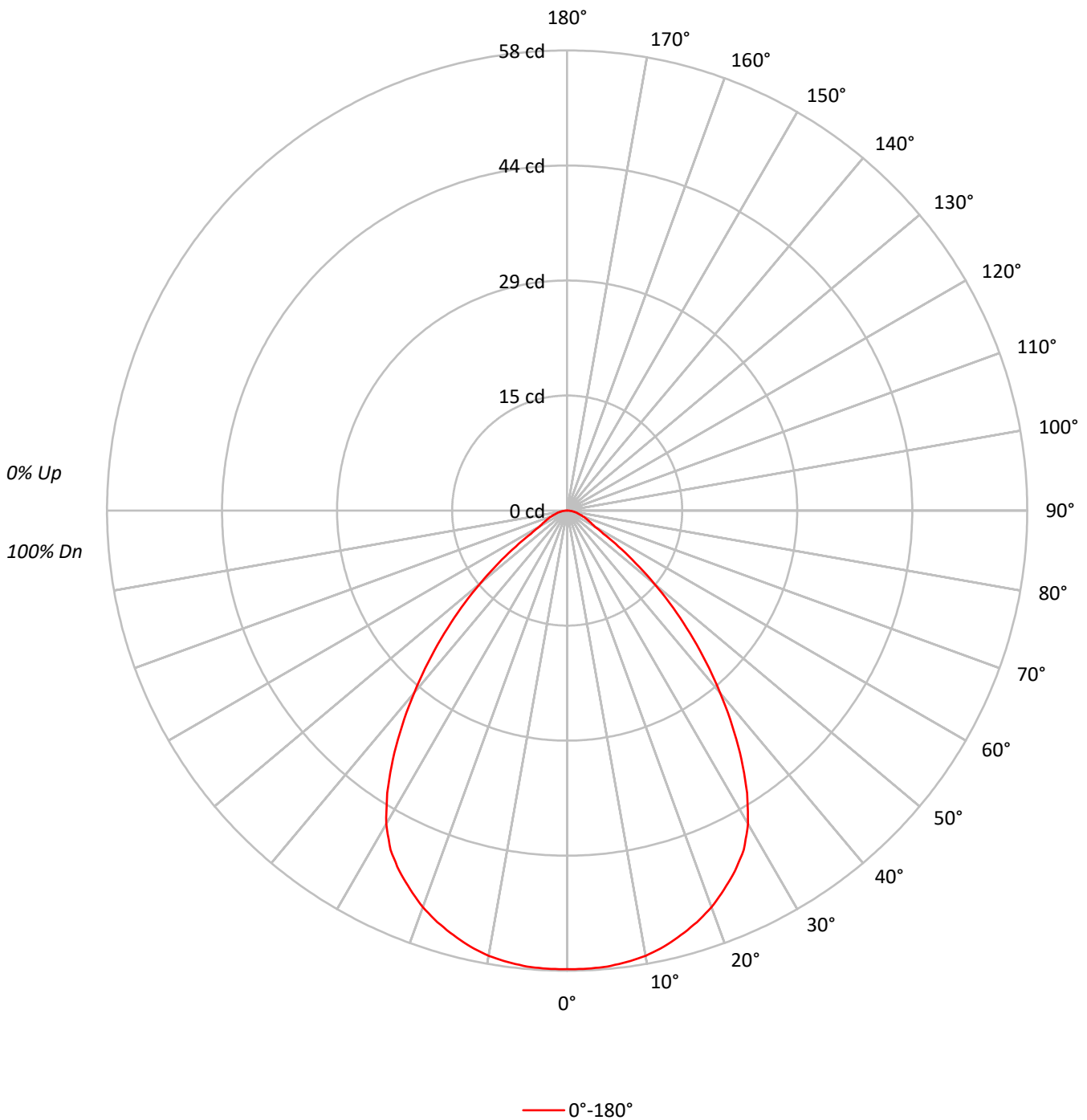
Lumens per Lamp: N/A
Luminaire Lumens: 97.0 lumens
Efficiency: N/A
Efficacy: 15.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865854

CATALOG NUMBER: PRLX-2004-S-940-05L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865854

CATALOG NUMBER: PRLX-2004-S-940-05L-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	97	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	73	68	78	72	68	76	71	67	74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	69	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	50	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°	943
5°	945
10°	944
15°	935
20°	923
25°	902
30°	859
35°	763
40°	639
45°	505
50°	363
55°	225
60°	130
65°	112
70°	100
75°	88
80°	85
85°	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 505 cd/sqm

TEST NUMBER: P865854

CATALOG NUMBER: PRLX-2004-S-940-05L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	5.7
10°-20°	15.6	16.1
20°-30°	23.0	23.7
30°-40°	23.8	24.5
40°-50°	16.9	17.4
50°-60°	7.4	7.6
60°-70°	2.9	3.0
70°-80°	1.5	1.6
80°-90°	0.5	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°	44.1	45.4
0°-40°	67.8	69.9
0°-60°	92.1	94.9
0°-90°	97.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	97.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	58	
5°	58	5
15°	55	16
25°	50	23
35°	38	24
45°	22	17
55°	8	7
65°	3	3
75°	1	2
85°	0	0
90°	0	

TEST NUMBER: P865854

CATALOG NUMBER: PRLX-2004-S-940-05L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	57.8
2.5°	57.8
5°	57.7
7.5°	57.4
10°	57.0
12.5°	56.3
15°	55.4
17.5°	54.4
20°	53.2
22.5°	51.7
25°	50.1
27.5°	48.2
30°	45.6
32.5°	42.2
35°	38.3
37.5°	34.2
40°	30.0
42.5°	25.9
45°	21.9
47.5°	18.1
50°	14.3
52.5°	10.9
55°	7.9
57.5°	5.4
60°	4.0
62.5°	3.4
65°	2.9
67.5°	2.5
70°	2.1
72.5°	1.7
75°	1.4
77.5°	1.2
80°	0.9
82.5°	0.7
85°	0.4
87.5°	0.2
90°	0.0

TEST NUMBER: P865854
 CATALOG NUMBER: PRLX-2004-S-940-05L-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	2.45	3.75	2.82	4.06	4.37	2.45	3.75	2.82	4.06	4.37
	3H	3.40	4.54	3.78	4.87	5.24	3.40	4.54	3.78	4.87	5.24
	4H	3.75	4.81	4.15	5.16	5.55	3.75	4.81	4.15	5.16	5.55
	6H	4.06	5.04	4.47	5.41	5.80	4.06	5.04	4.47	5.41	5.80
	8H	4.17	5.10	4.60	5.49	5.89	4.17	5.10	4.60	5.49	5.89
	12H	4.24	5.12	4.67	5.51	5.94	4.24	5.12	4.67	5.51	5.94
4H	2H	2.70	3.76	3.10	4.11	4.49	2.70	3.76	3.10	4.11	4.49
	3H	3.86	4.73	4.27	5.13	5.53	3.86	4.73	4.27	5.13	5.53
	4H	4.32	5.10	4.76	5.52	5.96	4.32	5.10	4.76	5.52	5.96
	6H	4.77	5.44	5.23	5.88	6.35	4.77	5.44	5.23	5.88	6.35
	8H	4.93	5.56	5.40	6.00	6.48	4.93	5.56	5.40	6.00	6.48
	12H	5.05	5.59	5.53	6.08	6.55	5.05	5.59	5.53	6.08	6.55
8H	4H	4.47	5.10	4.94	5.54	6.02	4.47	5.10	4.94	5.54	6.02
	6H	5.03	5.54	5.54	6.04	6.52	5.03	5.54	5.54	6.04	6.52
	8H	5.27	5.73	5.80	6.25	6.74	5.27	5.73	5.80	6.25	6.74
	12H	5.46	5.87	5.97	6.36	6.93	5.46	5.87	5.97	6.36	6.93
12H	4H	4.47	5.02	4.96	5.50	5.98	4.47	5.02	4.96	5.50	5.98
	6H	5.06	5.52	5.58	6.03	6.52	5.06	5.52	5.58	6.03	6.52
	8H	5.35	5.76	5.87	6.26	6.83	5.35	5.76	5.87	6.26	6.83