

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: P865706

Luminaire Tested: PRLX-2002-S-940-10L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-10L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

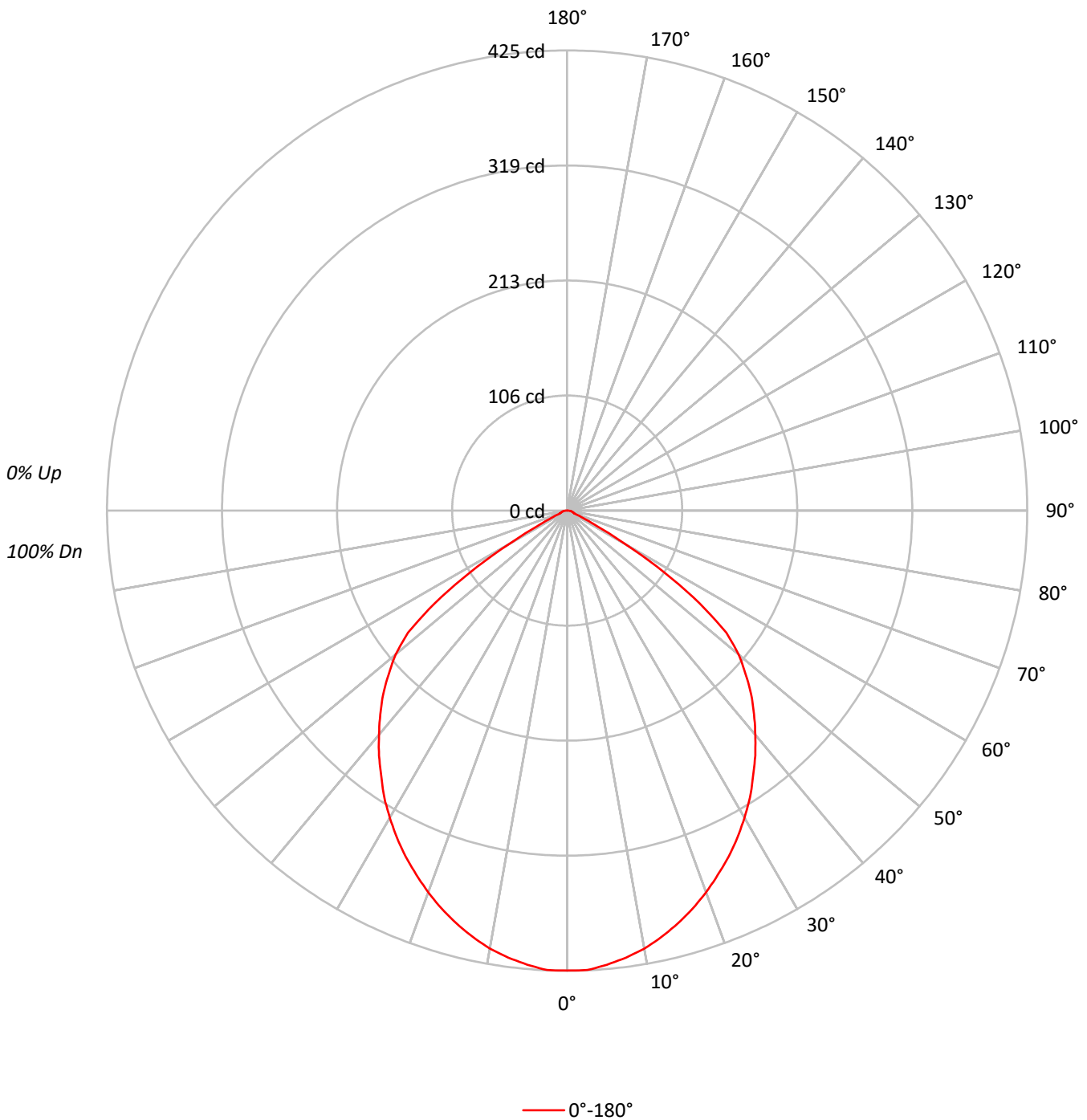
Lumens per Lamp: N/A
Luminaire Lumens: 843.6 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865706

CATALOG NUMBER: PRLX-2002-S-940-10L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865706

CATALOG NUMBER: PRLX-2002-S-940-10L-L-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	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	81	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	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	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	54	46	41	52	46	41	51	45	41	50	45	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	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7980
5°	7940
10°	7836
15°	7680
20°	7500
25°	7312
30°	7104
35°	6866
40°	6631
45°	6389
50°	6043
55°	4903
60°	2322
65°	707
70°	362
75°	406
80°	400
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6389 cd/sqm

TEST NUMBER: P865706

CATALOG NUMBER: PRLX-2002-S-940-10L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	4.7
10°-20°	111.2	13.2
20°-30°	162.4	19.2
30°-40°	187.5	22.2
40°-50°	184.8	21.9
50°-60°	127.9	15.2
60°-70°	21.8	2.6
70°-80°	5.6	0.7
80°-90°	2.5	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°	313.5	37.2
0°-40°	500.9	59.4
0°-60°	813.7	96.5
0°-90°	843.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	843.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	425	
5°	421	40
15°	395	111
25°	353	162
35°	299	187
45°	240	185
55°	150	128
65°	16	22
75°	6	6
85°	3	3
90°	0	

TEST NUMBER: P865706

CATALOG NUMBER: PRLX-2002-S-940-10L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	424.8
2.5°	424.8
5°	421.1
7.5°	416.4
10°	410.8
12.5°	403.3
15°	394.9
17.5°	385.5
20°	375.2
22.5°	364.0
25°	352.8
27.5°	340.6
30°	327.5
32.5°	314.4
35°	299.4
37.5°	285.4
40°	270.4
42.5°	255.5
45°	240.5
47.5°	223.6
50°	206.8
52.5°	185.3
55°	149.7
57.5°	106.7
60°	61.8
62.5°	31.8
65°	15.9
67.5°	7.5
70°	6.6
72.5°	5.6
75°	5.6
77.5°	4.7
80°	3.7
82.5°	3.7
85°	2.8
87.5°	0.9
90°	0.0



TEST NUMBER: P865706
 CATALOG NUMBER: PRLX-2002-S-940-10L-L-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	15.92	17.33	16.28	17.65	17.96	15.92	17.33	16.28	17.65	17.96
	3H	15.83	17.08	16.20	17.40	17.77	15.83	17.08	16.20	17.40	17.77
	4H	15.78	16.94	16.18	17.29	17.67	15.78	16.94	16.18	17.29	17.67
	6H	15.73	16.80	16.15	17.17	17.56	15.73	16.80	16.15	17.17	17.56
	8H	15.71	16.72	16.14	17.11	17.52	15.71	16.72	16.14	17.11	17.52
	12H	15.69	16.66	16.13	17.04	17.47	15.69	16.66	16.13	17.04	17.47
4H	2H	15.77	16.93	16.17	17.28	17.67	15.77	16.93	16.17	17.28	17.67
	3H	15.70	16.64	16.11	17.04	17.44	15.70	16.64	16.11	17.04	17.44
	4H	15.66	16.49	16.09	16.91	17.35	15.66	16.49	16.09	16.91	17.35
	6H	15.62	16.34	16.09	16.79	17.25	15.62	16.34	16.09	16.79	17.25
	8H	15.60	16.27	16.07	16.72	17.19	15.60	16.27	16.07	16.72	17.19
	12H	15.59	16.19	16.08	16.67	17.15	15.59	16.19	16.08	16.67	17.15
8H	4H	15.55	16.22	16.01	16.66	17.13	15.55	16.22	16.01	16.66	17.13
	6H	15.51	16.06	16.01	16.56	17.04	15.51	16.06	16.01	16.56	17.04
	8H	15.49	16.00	16.01	16.51	17.00	15.49	16.00	16.01	16.51	17.00
	12H	15.51	15.96	16.02	16.45	17.02	15.51	15.96	16.02	16.45	17.02
12H	4H	15.51	16.10	15.99	16.58	17.06	15.51	16.10	15.99	16.58	17.06
	6H	15.45	15.96	15.97	16.47	16.96	15.45	15.96	15.97	16.47	16.96
	8H	15.47	15.92	15.98	16.41	16.98	15.47	15.92	15.98	16.41	16.98