

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: P865707

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-19)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

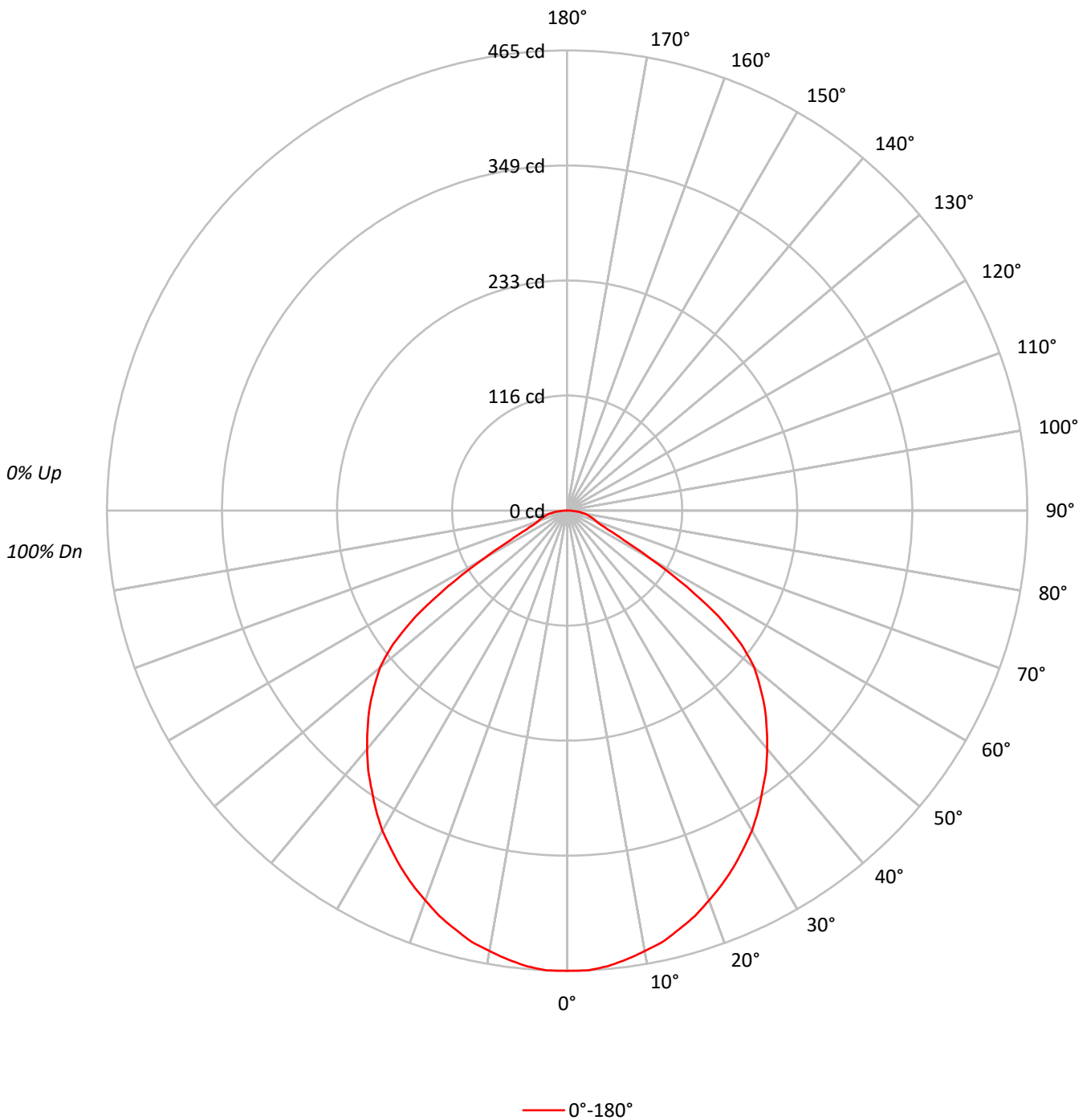
Lumens per Lamp: N/A
Luminaire Lumens: 1032.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: P865707

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

Luminous Intensity Polar Plot





TEST NUMBER: P865707

CATALOG NUMBER: PRLX-2002-S-940-10L-L-U-S-X-X-WHHR-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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8737
5°	8717
10°	8621
15°	8516
20°	8380
25°	8243
30°	8099
35°	7898
40°	7709
45°	7507
50°	7218
55°	6127
60°	3655
65°	2040
70°	1697
75°	1764
80°	1926
85°	2026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7507 cd/sqm

TEST NUMBER: P865707

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	4.2
10°-20°	123.5	12.0
20°-30°	183.2	17.7
30°-40°	215.7	20.9
40°-50°	217.4	21.1
50°-60°	161.1	15.6
60°-70°	51.8	5.0
70°-80°	25.9	2.5
80°-90°	10.1	1.0
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°	350.5	33.9
0°-40°	566.1	54.8
0°-60°	944.7	91.5
0°-90°	1032.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	465	
5°	462	44
15°	438	123
25°	398	183
35°	344	216
45°	283	217
55°	187	161
65°	46	52
75°	24	26
85°	9	10
90°	0	

TEST NUMBER: P865707

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	465.1
2.5°	465.1
5°	462.3
7.5°	457.6
10°	452.0
12.5°	446.3
15°	437.9
17.5°	429.5
20°	419.2
22.5°	408.9
25°	397.7
27.5°	385.5
30°	373.4
32.5°	359.3
35°	344.4
37.5°	330.3
40°	314.4
42.5°	298.5
45°	282.6
47.5°	264.8
50°	247.0
52.5°	221.8
55°	187.1
57.5°	143.2
60°	97.3
62.5°	64.6
65°	45.9
67.5°	35.6
70°	30.9
72.5°	28.1
75°	24.3
77.5°	21.5
80°	17.8
82.5°	14.0
85°	9.4
87.5°	4.7
90°	0.0



TEST NUMBER: P865707
 CATALOG NUMBER: PRLX-2002-S-940-10L-L-U-S-X-X-WHHR-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	17.22	18.71	17.59	19.03	19.34	17.22	18.71	17.59	19.03	19.34
	3H	17.47	18.79	17.84	19.12	19.48	17.47	18.79	17.84	19.12	19.48
	4H	17.63	18.86	18.03	19.21	19.59	17.63	18.86	18.03	19.21	19.59
	6H	17.82	18.96	18.23	19.32	19.72	17.82	18.96	18.23	19.32	19.72
	8H	17.91	18.99	18.33	19.38	19.78	17.91	18.99	18.33	19.38	19.78
	12H	17.98	19.01	18.41	19.39	19.82	17.98	19.01	18.41	19.39	19.82
4H	2H	17.22	18.46	17.62	18.80	19.18	17.22	18.46	17.62	18.80	19.18
	3H	17.60	18.61	18.02	19.02	19.42	17.60	18.61	18.02	19.02	19.42
	4H	17.86	18.77	18.30	19.18	19.62	17.86	18.77	18.30	19.18	19.62
	6H	18.19	18.98	18.65	19.42	19.88	18.19	18.98	18.65	19.42	19.88
	8H	18.34	19.07	18.80	19.52	19.98	18.34	19.07	18.80	19.52	19.98
	12H	18.47	19.12	18.95	19.60	20.07	18.47	19.12	18.95	19.60	20.07
8H	4H	17.93	18.67	18.40	19.11	19.58	17.93	18.67	18.40	19.11	19.58
	6H	18.36	18.97	18.86	19.47	19.95	18.36	18.97	18.86	19.47	19.95
	8H	18.58	19.14	19.10	19.65	20.14	18.58	19.14	19.10	19.65	20.14
	12H	18.80	19.29	19.31	19.78	20.35	18.80	19.29	19.31	19.78	20.35
12H	4H	17.93	18.59	18.42	19.07	19.54	17.93	18.59	18.42	19.07	19.54
	6H	18.38	18.94	18.90	19.45	19.94	18.38	18.94	18.90	19.45	19.94
	8H	18.66	19.15	19.17	19.65	20.21	18.66	19.15	19.17	19.65	20.21