

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: P865541

Luminaire Tested: PRLX-2001-S-940-10L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-10L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

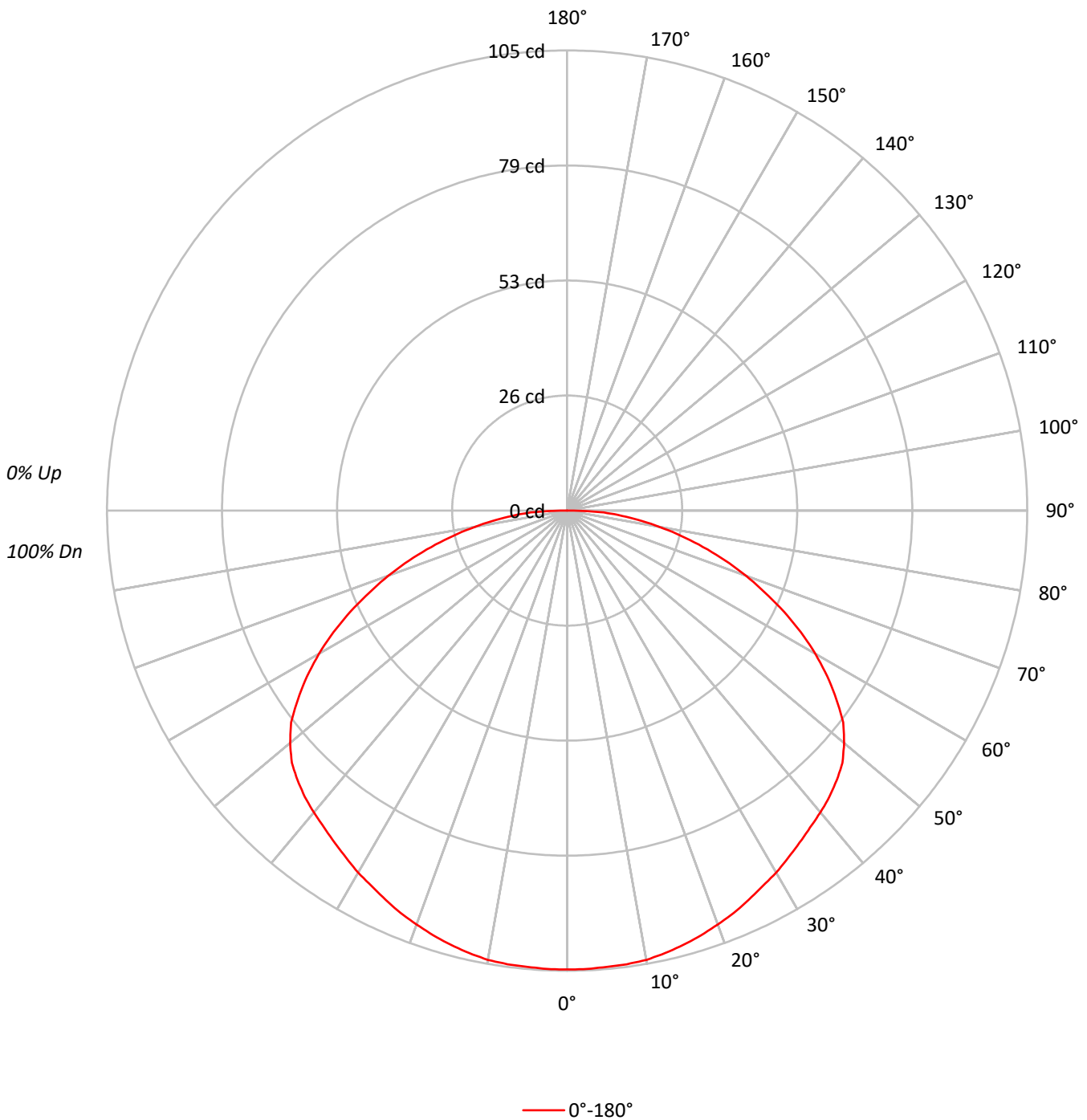
Lumens per Lamp: N/A
Luminaire Lumens: 376.8 lumens
Efficiency: N/A
Efficacy: 35.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P865541

CATALOG NUMBER: PRLX-2001-S-940-10L-G-U-S-X-X-BRSS-X

Luminous Intensity Polar Plot





TEST NUMBER: P865541

CATALOG NUMBER: PRLX-2001-S-940-10L-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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	107	102	97	93	105	100	95	91	95	92	89	91	89	86	88	85	83
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	48
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	41	36
7	62	48	39	32	60	47	38	32	45	38	32	44	37	31	43	36	31
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	32	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1708
5°	1711
10°	1724
15°	1732
20°	1744
25°	1764
30°	1797
35°	1842
40°	1914
45°	2007
50°	2093
55°	2133
60°	2133
65°	2107
70°	2070
75°	2023
80°	2001
85°	2190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 2804 cd/sqm

TEST NUMBER: P865541

CATALOG NUMBER: PRLX-2001-S-940-10L-G-U-S-X-X-BRSS-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	2.6
10°-20°	29.0	7.7
20°-30°	45.3	12.0
30°-40°	58.1	15.4
40°-50°	67.1	17.8
50°-60°	66.9	17.7
60°-70°	53.9	14.3
70°-80°	34.0	9.0
80°-90°	12.6	3.3
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°	84.2	22.4
0°-40°	142.3	37.8
0°-60°	276.3	73.3
0°-90°	376.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	105	
5°	104	10
15°	103	29
25°	98	45
35°	92	58
45°	87	67
55°	75	67
65°	55	54
75°	32	34
85°	12	13
90°	0	

TEST NUMBER: P865541

CATALOG NUMBER: PRLX-2001-S-940-10L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	104.7
2.5°	104.7
5°	104.5
7.5°	104.4
10°	104.1
12.5°	103.4
15°	102.6
17.5°	101.6
20°	100.5
22.5°	99.4
25°	98.0
27.5°	96.6
30°	95.4
32.5°	93.9
35°	92.5
37.5°	91.1
40°	89.9
42.5°	88.6
45°	87.0
47.5°	85.2
50°	82.5
52.5°	79.4
55°	75.0
57.5°	70.4
60°	65.4
62.5°	60.1
65°	54.6
67.5°	48.8
70°	43.4
72.5°	37.8
75°	32.1
77.5°	26.7
80°	21.3
82.5°	16.3
85°	11.7
87.5°	7.5
90°	0.0



TEST NUMBER: P865541
 CATALOG NUMBER: PRLX-2001-S-940-10L-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	15.12	16.85	15.48	17.17	17.48	15.12	16.85	15.48	17.17	17.48
	3H	17.12	18.70	17.50	19.03	19.39	17.12	18.70	17.50	19.03	19.39
	4H	17.94	19.43	18.33	19.78	20.15	17.94	19.43	18.33	19.78	20.15
	6H	18.61	20.00	19.02	20.36	20.75	18.61	20.00	19.02	20.36	20.75
	8H	18.87	20.20	19.29	20.59	20.98	18.87	20.20	19.29	20.59	20.98
	12H	19.09	20.37	19.52	20.75	21.18	19.09	20.37	19.52	20.75	21.18
4H	2H	15.82	17.31	16.22	17.66	18.03	15.82	17.31	16.22	17.66	18.03
	3H	18.06	19.33	18.47	19.72	20.12	18.06	19.33	18.47	19.72	20.12
	4H	19.01	20.17	19.44	20.58	21.01	19.01	20.17	19.44	20.58	21.01
	6H	19.84	20.85	20.29	21.29	21.74	19.84	20.85	20.29	21.29	21.74
	8H	20.16	21.12	20.62	21.56	22.02	20.16	21.12	20.62	21.56	22.02
	12H	20.46	21.32	20.94	21.79	22.26	20.46	21.32	20.94	21.79	22.26
8H	4H	19.41	20.36	19.87	20.80	21.26	19.41	20.36	19.87	20.80	21.26
	6H	20.39	21.19	20.88	21.67	22.14	20.39	21.19	20.88	21.67	22.14
	8H	20.82	21.54	21.32	22.04	22.52	20.82	21.54	21.32	22.04	22.52
	12H	21.23	21.87	21.74	22.36	22.91	21.23	21.87	21.74	22.36	22.91
12H	4H	19.47	20.33	19.95	20.81	21.27	19.47	20.33	19.95	20.81	21.27
	6H	20.49	21.21	20.99	21.71	22.19	20.49	21.21	20.99	21.71	22.19
	8H	21.00	21.63	21.50	22.12	22.68	21.00	21.63	21.50	22.12	22.68