

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: P866340

Luminaire Tested: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

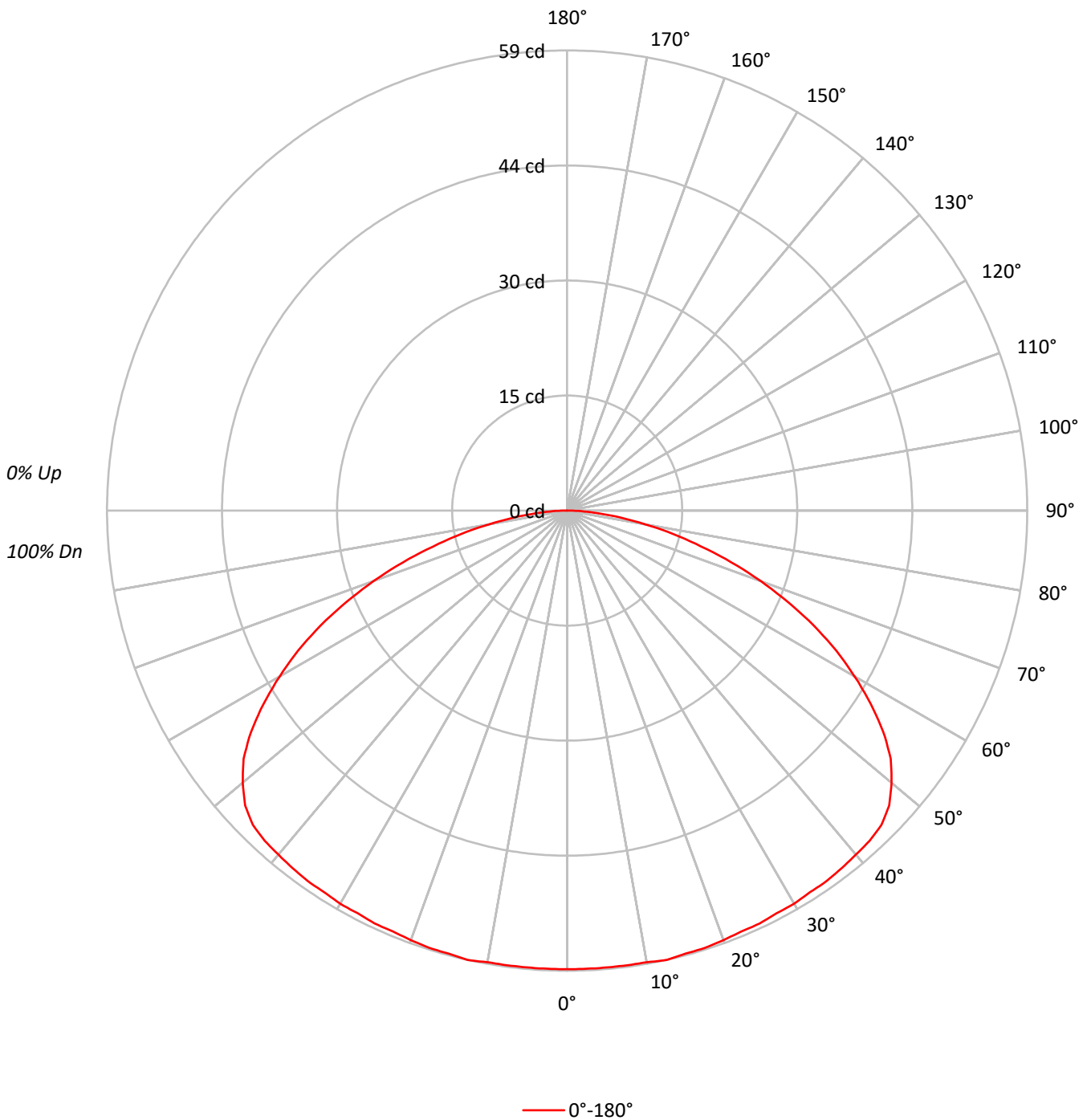
Lumens per Lamp: N/A
Luminaire Lumens: 231.7 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
Input Voltage (V): 120
Input Current (Ain): 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: P866340

CATALOG NUMBER: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866340

CATALOG NUMBER: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-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	108	103	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	468
5°	470
10°	475
15°	484
20°	496
25°	513
30°	535
35°	563
40°	598
45°	641
50°	672
55°	687
60°	678
65°	657
70°	614
75°	547
80°	463
85°	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 687 cd/sqm

TEST NUMBER: P866340

CATALOG NUMBER: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	2.4
10°-20°	16.7	7.2
20°-30°	27.0	11.7
30°-40°	36.4	15.7
40°-50°	43.8	18.9
50°-60°	44.0	19.0
60°-70°	34.4	14.8
70°-80°	19.0	8.2
80°-90°	4.9	2.1
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°	49.3	21.3
0°-40°	85.7	37.0
0°-60°	173.4	74.9
0°-90°	231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	59	
5°	59	6
15°	59	17
25°	58	27
35°	58	36
45°	57	44
55°	50	44
65°	35	34
75°	18	19
85°	4	5
90°	0	

TEST NUMBER: P866340

CATALOG NUMBER: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	58.8
2.5°	58.8
5°	58.8
7.5°	58.8
10°	58.8
12.5°	59.0
15°	58.8
17.5°	58.8
20°	58.6
22.5°	58.4
25°	58.4
27.5°	58.2
30°	58.2
32.5°	58.0
35°	58.0
37.5°	57.8
40°	57.6
42.5°	57.4
45°	57.0
47.5°	56.0
50°	54.3
52.5°	52.3
55°	49.5
57.5°	46.2
60°	42.6
62.5°	38.9
65°	34.9
67.5°	30.6
70°	26.4
72.5°	22.1
75°	17.8
77.5°	14.0
80°	10.1
82.5°	6.9
85°	4.1
87.5°	1.8
90°	0.0



TEST NUMBER: P866340
 CATALOG NUMBER: PRLX-2002-M-940-07L-G-U-S-X-X-BLAK-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	11.38	13.12	11.75	13.43	13.74	11.38	13.12	11.75	13.43	13.74
	3H	13.22	14.79	13.59	15.12	15.48	13.22	14.79	13.59	15.12	15.48
	4H	13.86	15.35	14.25	15.69	16.06	13.86	15.35	14.25	15.69	16.06
	6H	14.30	15.68	14.71	16.05	16.44	14.30	15.68	14.71	16.05	16.44
	8H	14.43	15.75	14.85	16.14	16.54	14.43	15.75	14.85	16.14	16.54
	12H	14.51	15.78	14.94	16.16	16.59	14.51	15.78	14.94	16.16	16.59
4H	2H	12.05	13.54	12.45	13.89	14.26	12.05	13.54	12.45	13.89	14.26
	3H	14.10	15.35	14.50	15.74	16.14	14.10	15.35	14.50	15.74	16.14
	4H	14.85	15.99	15.28	16.40	16.84	14.85	15.99	15.28	16.40	16.84
	6H	15.41	16.41	15.86	16.85	17.30	15.41	16.41	15.86	16.85	17.30
	8H	15.59	16.52	16.04	16.96	17.42	15.59	16.52	16.04	16.96	17.42
	12H	15.71	16.55	16.19	17.02	17.49	15.71	16.55	16.19	17.02	17.49
8H	4H	15.16	16.10	15.62	16.54	17.00	15.16	16.10	15.62	16.54	17.00
	6H	15.83	16.61	16.32	17.09	17.56	15.83	16.61	16.32	17.09	17.56
	8H	16.06	16.76	16.57	17.26	17.75	16.06	16.76	16.57	17.26	17.75
	12H	16.24	16.86	16.75	17.35	17.91	16.24	16.86	16.75	17.35	17.91
12H	4H	15.20	16.04	15.67	16.51	16.98	15.20	16.04	15.67	16.51	16.98
	6H	15.87	16.57	16.38	17.08	17.56	15.87	16.57	16.38	17.08	17.56
	8H	16.16	16.78	16.67	17.27	17.83	16.16	16.78	16.67	17.27	17.83