

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: P866216

Luminaire Tested: PRLX-2002-M-930-07L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-07L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

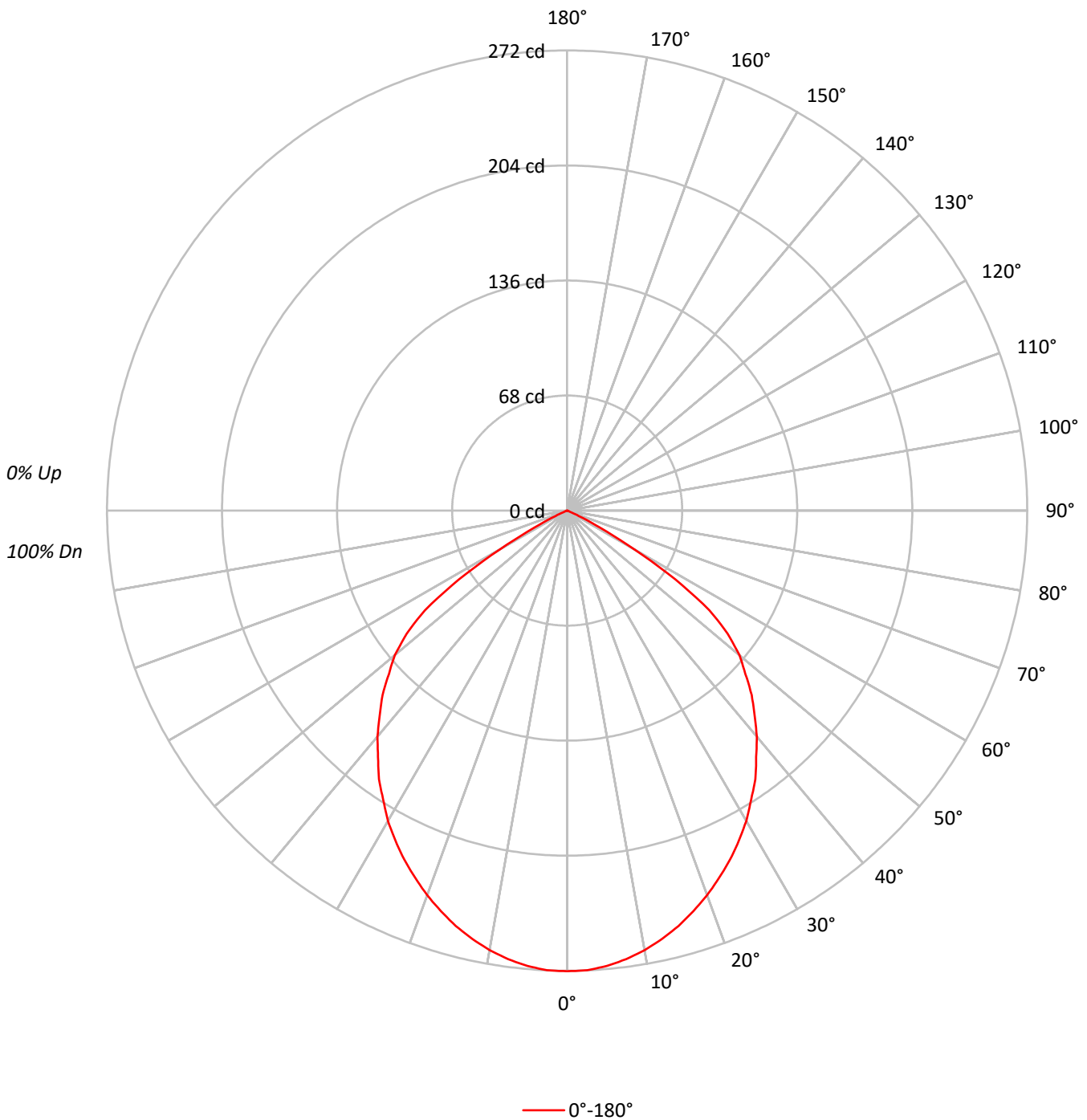
Lumens per Lamp: N/A
Luminaire Lumens: 541.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: P866216

CATALOG NUMBER: PRLX-2002-M-930-07L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866216

CATALOG NUMBER: PRLX-2002-M-930-07L-L-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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2166
5°	2158
10°	2131
15°	2094
20°	2048
25°	2000
30°	1946
35°	1884
40°	1811
45°	1736
50°	1645
55°	1424
60°	729
65°	141
70°	14
75°	18
80°	18
85°	18

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1736 cd/sqm

TEST NUMBER: P866216

CATALOG NUMBER: PRLX-2002-M-930-07L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	4.7
10°-20°	71.6	13.2
20°-30°	104.8	19.3
30°-40°	121.0	22.3
40°-50°	118.6	21.9
50°-60°	86.2	15.9
60°-70°	13.2	2.4
70°-80°	0.6	0.1
80°-90°	0.3	0.1
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°	202.0	37.3
0°-40°	323.0	59.6
0°-60°	527.7	97.4
0°-90°	541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	272	
5°	270	26
15°	254	72
25°	228	105
35°	194	121
45°	154	119
55°	103	86
65°	8	13
75°	1	1
85°	0	0
90°	0	

TEST NUMBER: P866216

CATALOG NUMBER: PRLX-2002-M-930-07L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	272.3
2.5°	271.9
5°	270.2
7.5°	267.4
10°	263.8
12.5°	259.3
15°	254.2
17.5°	248.2
20°	241.9
22.5°	234.9
25°	227.8
27.5°	219.9
30°	211.8
32.5°	202.4
35°	194.0
37.5°	183.6
40°	174.4
42.5°	163.9
45°	154.3
47.5°	142.9
50°	132.9
52.5°	119.6
55°	102.7
57.5°	75.9
60°	45.8
62.5°	21.8
65°	7.5
67.5°	1.9
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.4
80°	0.4
82.5°	0.4
85°	0.2
87.5°	0.2
90°	0.0



TEST NUMBER: P866216
 CATALOG NUMBER: PRLX-2002-M-930-07L-L-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	12.12	13.54	12.49	13.85	14.16	12.12	13.54	12.49	13.85	14.16
	3H	12.01	13.25	12.38	13.58	13.94	12.01	13.25	12.38	13.58	13.94
	4H	11.94	13.09	12.34	13.44	13.82	11.94	13.09	12.34	13.44	13.82
	6H	11.87	12.92	12.28	13.29	13.69	11.87	12.92	12.28	13.29	13.69
	8H	11.83	12.83	12.26	13.22	13.62	11.83	12.83	12.26	13.22	13.62
	12H	11.79	12.74	12.22	13.13	13.56	11.79	12.74	12.22	13.13	13.56
4H	2H	11.96	13.11	12.36	13.46	13.84	11.96	13.11	12.36	13.46	13.84
	3H	11.85	12.77	12.26	13.18	13.58	11.85	12.77	12.26	13.18	13.58
	4H	11.77	12.59	12.20	13.01	13.45	11.77	12.59	12.20	13.01	13.45
	6H	11.69	12.40	12.15	12.84	13.31	11.69	12.40	12.15	12.84	13.31
	8H	11.63	12.30	12.10	12.74	13.21	11.63	12.30	12.10	12.74	13.21
	12H	11.59	12.18	12.08	12.66	13.13	11.59	12.18	12.08	12.66	13.13
8H	4H	11.63	12.29	12.10	12.74	13.21	11.63	12.29	12.10	12.74	13.21
	6H	11.53	12.08	12.03	12.57	13.05	11.53	12.08	12.03	12.57	13.05
	8H	11.47	11.96	11.99	12.47	12.97	11.47	11.96	11.99	12.47	12.97
	12H	11.42	11.86	11.93	12.36	12.92	11.42	11.86	11.93	12.36	12.92
12H	4H	11.59	12.17	12.07	12.66	13.13	11.59	12.17	12.07	12.66	13.13
	6H	11.46	11.96	11.98	12.47	12.96	11.46	11.96	11.98	12.47	12.96
	8H	11.42	11.86	11.93	12.35	12.92	11.42	11.86	11.93	12.35	12.92