

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: P865956

Luminaire Tested: PRLX-2001-M-930-07L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-07L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

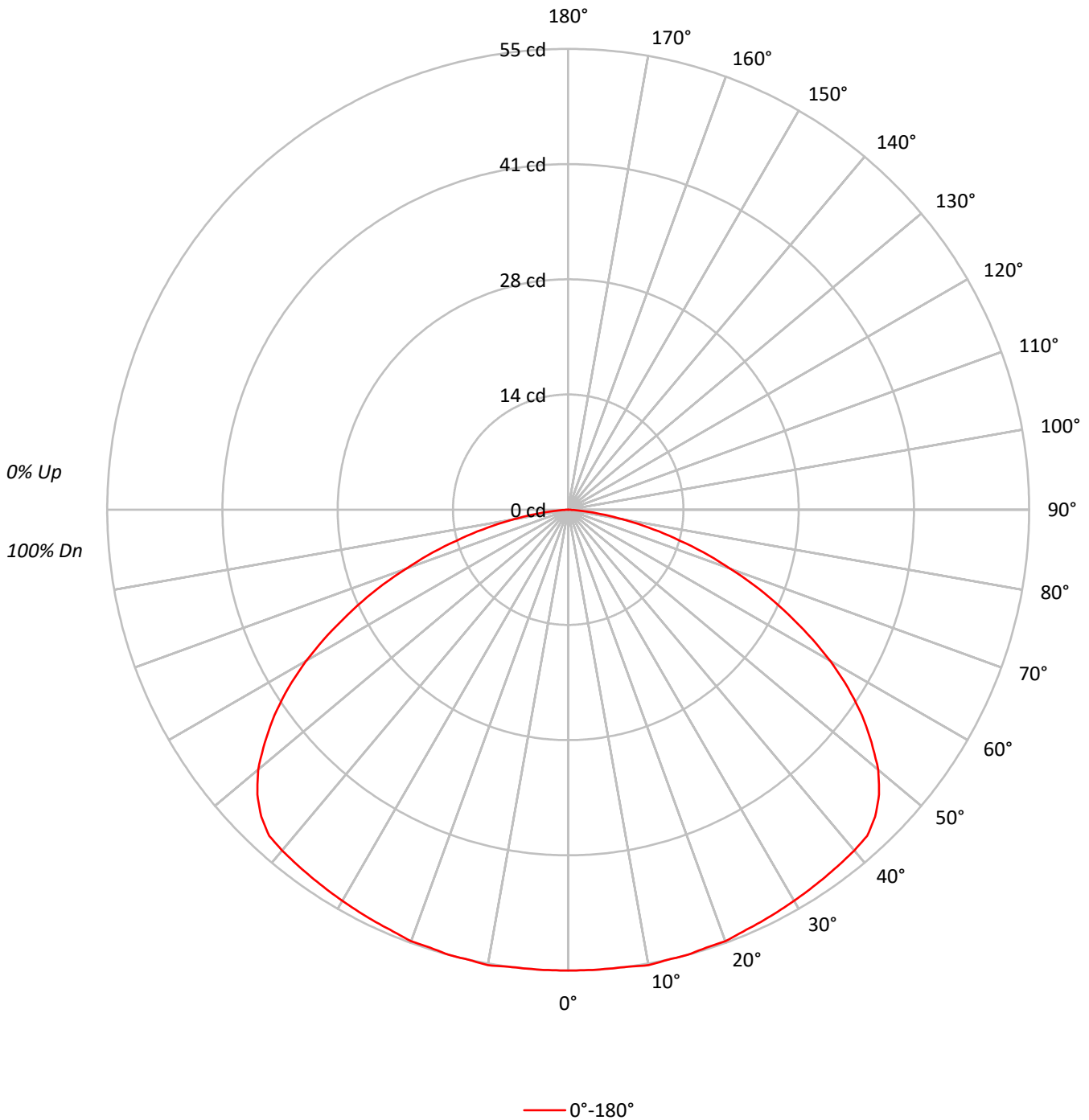
Lumens per Lamp: N/A
Luminaire Lumens: 202.1 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: P865956

CATALOG NUMBER: PRLX-2001-M-930-07L-G-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P865956

CATALOG NUMBER: PRLX-2001-M-930-07L-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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	467
5°	469
10°	476
15°	483
20°	495
25°	508
30°	528
35°	554
40°	588
45°	622
50°	638
55°	633
60°	613
65°	570
70°	509
75°	430
80°	323
85°	166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 638 cd/sqm

TEST NUMBER: P865956

CATALOG NUMBER: PRLX-2001-M-930-07L-G-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	2.6
10°-20°	15.6	7.7
20°-30°	25.1	12.4
30°-40°	33.6	16.6
40°-50°	39.8	19.7
50°-60°	38.1	18.8
60°-70°	28.1	13.9
70°-80°	14.1	7.0
80°-90°	2.5	1.3
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°	46.0	22.7
0°-40°	79.6	39.4
0°-60°	157.4	77.9
0°-90°	202.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	202.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	55	
5°	55	5
15°	55	16
25°	54	25
35°	54	34
45°	52	40
55°	43	38
65°	28	28
75°	13	14
85°	2	3
90°	0	

TEST NUMBER: P865956

CATALOG NUMBER: PRLX-2001-M-930-07L-G-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	55.0
2.5°	55.0
5°	55.0
7.5°	55.0
10°	55.2
12.5°	55.0
15°	55.0
17.5°	54.8
20°	54.8
22.5°	54.5
25°	54.3
27.5°	54.1
30°	53.9
32.5°	53.7
35°	53.5
37.5°	53.3
40°	53.1
42.5°	52.8
45°	51.8
47.5°	50.3
50°	48.3
52.5°	45.6
55°	42.8
57.5°	39.6
60°	36.1
62.5°	32.3
65°	28.4
67.5°	24.6
70°	20.5
72.5°	16.9
75°	13.1
77.5°	9.8
80°	6.6
82.5°	3.9
85°	1.7
87.5°	0.4
90°	0.0



TEST NUMBER: P865956
 CATALOG NUMBER: PRLX-2001-M-930-07L-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	11.05	12.75	11.41	13.06	13.38	11.05	12.75	11.41	13.06	13.38
	3H	12.67	14.20	13.04	14.53	14.89	12.67	14.20	13.04	14.53	14.89
	4H	13.18	14.63	13.58	14.98	15.35	13.18	14.63	13.58	14.98	15.35
	6H	13.49	14.83	13.90	15.20	15.59	13.49	14.83	13.90	15.20	15.59
	8H	13.55	14.83	13.97	15.22	15.62	13.55	14.83	13.97	15.22	15.62
	12H	13.57	14.80	13.99	15.18	15.61	13.57	14.80	13.99	15.18	15.61
4H	2H	11.65	13.10	12.05	13.45	13.82	11.65	13.10	12.05	13.45	13.82
	3H	13.47	14.68	13.87	15.08	15.48	13.47	14.68	13.87	15.08	15.48
	4H	14.09	15.18	14.52	15.60	16.03	14.09	15.18	14.52	15.60	16.03
	6H	14.49	15.44	14.94	15.88	16.34	14.49	15.44	14.94	15.88	16.34
	8H	14.57	15.47	15.03	15.91	16.37	14.57	15.47	15.03	15.91	16.37
	12H	14.61	15.41	15.09	15.89	16.36	14.61	15.41	15.09	15.89	16.36
8H	4H	14.33	15.22	14.79	15.66	16.13	14.33	15.22	14.79	15.66	16.13
	6H	14.80	15.54	15.29	16.03	16.50	14.80	15.54	15.29	16.03	16.50
	8H	14.92	15.58	15.42	16.09	16.57	14.92	15.58	15.42	16.09	16.57
	12H	14.98	15.57	15.48	16.06	16.62	14.98	15.57	15.48	16.06	16.62
12H	4H	14.34	15.15	14.82	15.62	16.09	14.34	15.15	14.82	15.62	16.09
	6H	14.81	15.48	15.32	15.99	16.47	14.81	15.48	15.32	15.99	16.47
	8H	14.97	15.56	15.48	16.05	16.61	14.97	15.56	15.48	16.05	16.61