

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: P865618

Luminaire Tested: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

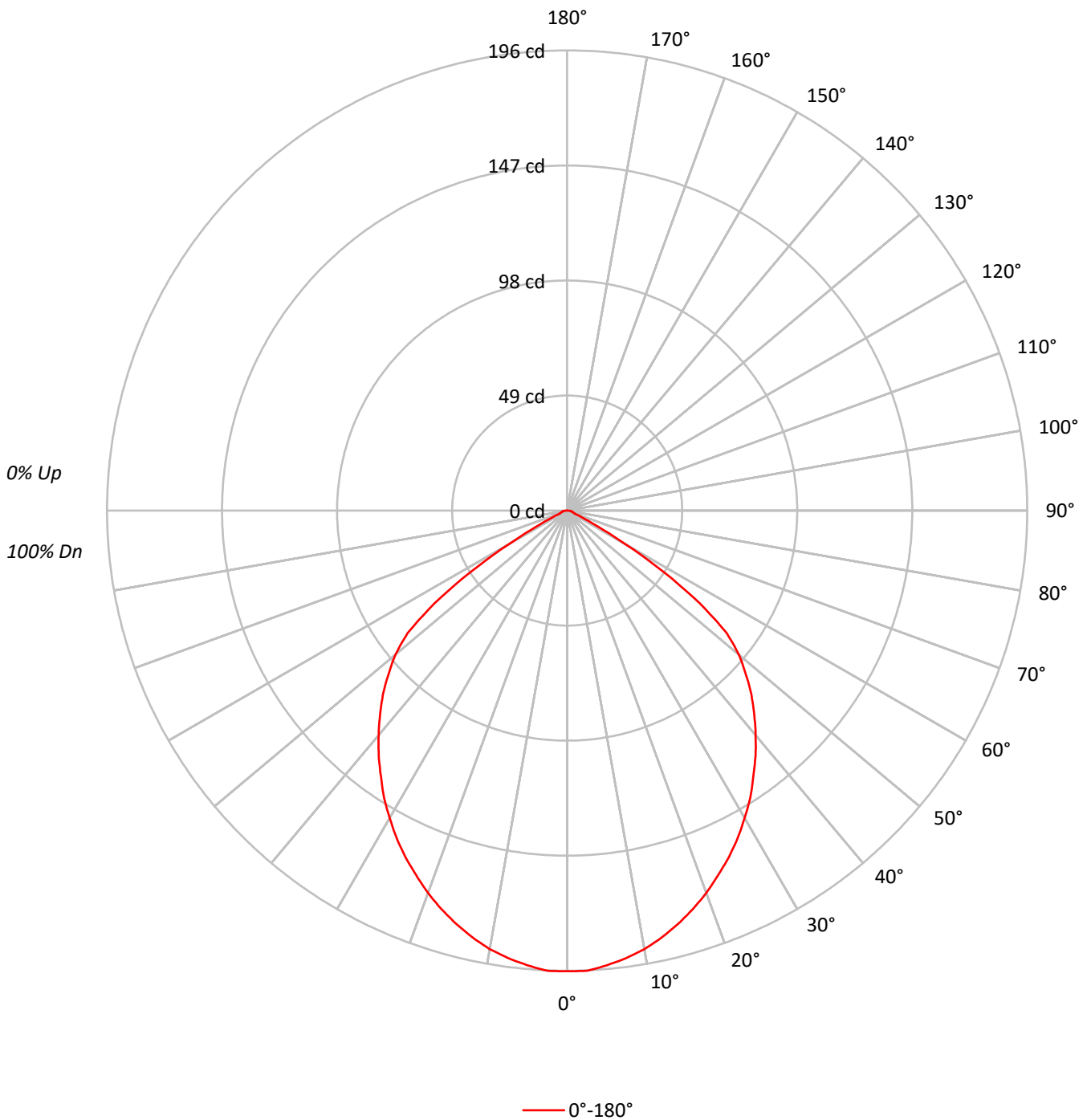
Lumens per Lamp: N/A
Luminaire Lumens: 389.6 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865618

CATALOG NUMBER: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865618

CATALOG NUMBER: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3685
5°	3666
10°	3618
15°	3545
20°	3464
25°	3376
30°	3280
35°	3171
40°	3063
45°	2949
50°	2791
55°	2263
60°	1071
65°	324
70°	165
75°	189
80°	184
85°	280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2949 cd/sqm

TEST NUMBER: P865618

CATALOG NUMBER: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	4.7
10°-20°	51.4	13.2
20°-30°	75.0	19.2
30°-40°	86.6	22.2
40°-50°	85.4	21.9
50°-60°	59.1	15.2
60°-70°	10.1	2.6
70°-80°	2.6	0.7
80°-90°	1.2	0.3
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°	144.7	37.2
0°-40°	231.3	59.4
0°-60°	375.8	96.5
0°-90°	389.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	389.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	196	
5°	194	18
15°	182	51
25°	163	75
35°	138	87
45°	111	85
55°	69	59
65°	7	10
75°	3	3
85°	1	1
90°	0	

TEST NUMBER: P865618

CATALOG NUMBER: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	196.2
2.5°	196.2
5°	194.4
7.5°	192.3
10°	189.7
12.5°	186.2
15°	182.3
17.5°	178.0
20°	173.3
22.5°	168.1
25°	162.9
27.5°	157.3
30°	151.2
32.5°	145.2
35°	138.3
37.5°	131.8
40°	124.9
42.5°	118.0
45°	111.0
47.5°	103.3
50°	95.5
52.5°	85.6
55°	69.1
57.5°	49.3
60°	28.5
62.5°	14.7
65°	7.3
67.5°	3.5
70°	3.0
72.5°	2.6
75°	2.6
77.5°	2.2
80°	1.7
82.5°	1.7
85°	1.3
87.5°	0.4
90°	0.0

TEST NUMBER: P865618
 CATALOG NUMBER: PRLX-2002-S-930-05L-L-U-S-X-X-GREY-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	13.23	14.65	13.60	14.97	15.28	13.23	14.65	13.60	14.97	15.28
	3H	13.14	14.39	13.52	14.72	15.09	13.14	14.39	13.52	14.72	15.09
	4H	13.10	14.26	13.50	14.61	14.99	13.10	14.26	13.50	14.61	14.99
	6H	13.05	14.12	13.47	14.49	14.88	13.05	14.12	13.47	14.49	14.88
	8H	13.03	14.04	13.46	14.43	14.83	13.03	14.04	13.46	14.43	14.83
	12H	13.01	13.98	13.44	14.36	14.79	13.01	13.98	13.44	14.36	14.79
4H	2H	13.09	14.25	13.49	14.60	14.98	13.09	14.25	13.49	14.60	14.98
	3H	13.02	13.95	13.43	14.36	14.76	13.02	13.95	13.43	14.36	14.76
	4H	12.97	13.81	13.41	14.22	14.67	12.97	13.81	13.41	14.22	14.67
	6H	12.94	13.66	13.40	14.11	14.57	12.94	13.66	13.40	14.11	14.57
	8H	12.92	13.59	13.39	14.04	14.51	12.92	13.59	13.39	14.04	14.51
	12H	12.91	13.51	13.40	13.99	14.46	12.91	13.51	13.40	13.99	14.46
8H	4H	12.86	13.54	13.33	13.98	14.45	12.86	13.54	13.33	13.98	14.45
	6H	12.83	13.38	13.33	13.88	14.36	12.83	13.38	13.33	13.88	14.36
	8H	12.81	13.32	13.33	13.83	14.32	12.81	13.32	13.33	13.83	14.32
	12H	12.83	13.28	13.34	13.77	14.34	12.83	13.28	13.34	13.77	14.34
12H	4H	12.82	13.42	13.31	13.90	14.38	12.82	13.42	13.31	13.90	14.38
	6H	12.77	13.28	13.29	13.79	14.28	12.77	13.28	13.29	13.79	14.28
	8H	12.78	13.24	13.30	13.73	14.30	12.78	13.24	13.30	13.73	14.30