

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: P866232

Luminaire Tested: PRLX-2002-M-930-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866232
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-930-25L-L-U-S-X-X-BLAK-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

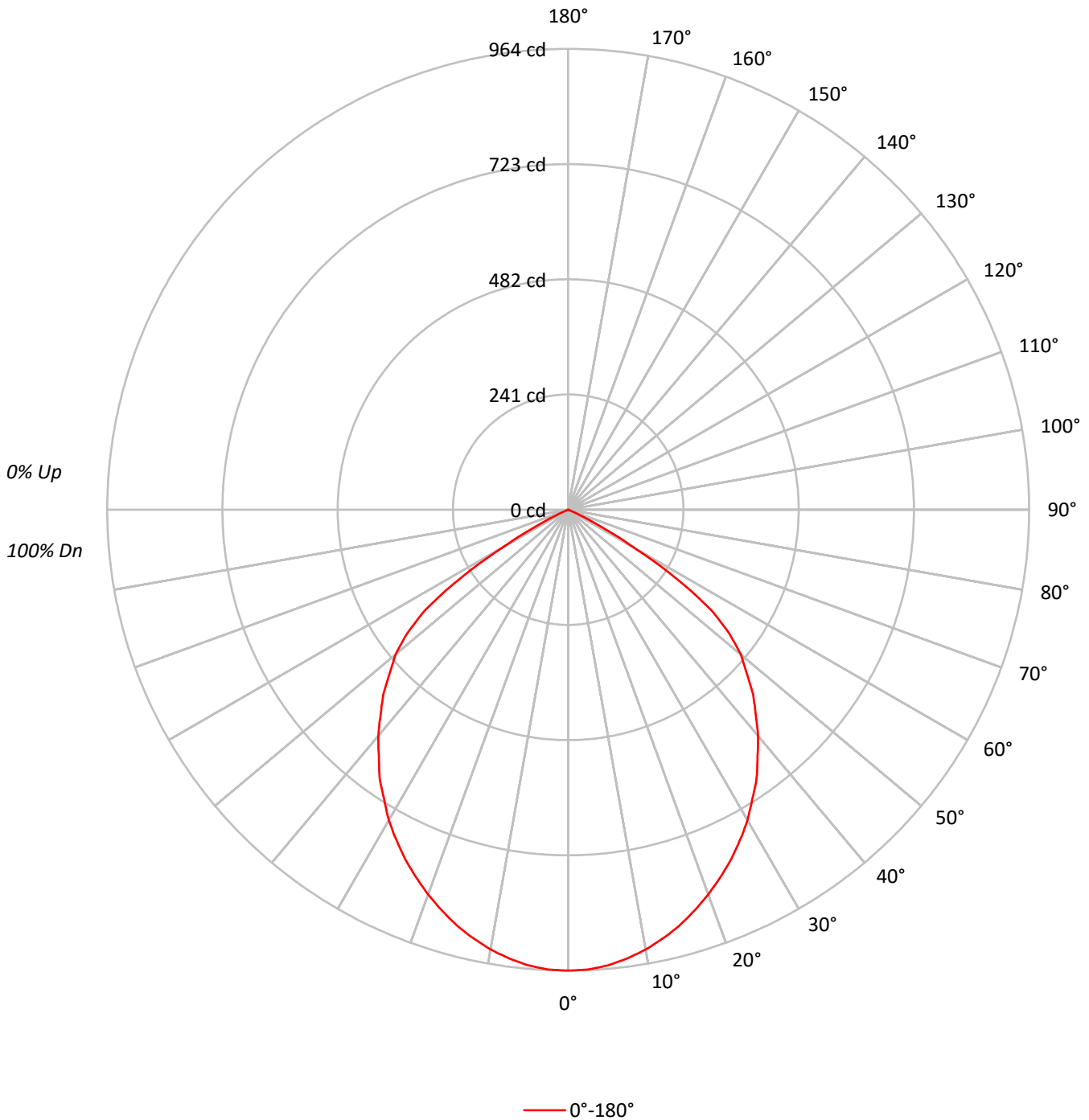
Lumens per Lamp: N/A
Luminaire Lumens: 1918.3 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: P866232

CATALOG NUMBER: PRLX-2002-M-930-25L-L-U-S-X-X-BLAK-X

Luminous Intensity Polar Plot





TEST NUMBER: P866232

CATALOG NUMBER: PRLX-2002-M-930-25L-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°	7670
5°	7641
10°	7547
15°	7415
20°	7251
25°	7080
30°	6890
35°	6671
40°	6415
45°	6150
50°	5827
55°	5045
60°	2581
65°	501
70°	47
75°	61
80°	60
85°	64

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6150 cd/sqm

TEST NUMBER: P866232

CATALOG NUMBER: PRLX-2002-M-930-25L-L-U-S-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	4.7
10°-20°	253.5	13.2
20°-30°	371.2	19.3
30°-40°	428.4	22.3
40°-50°	420.0	21.9
50°-60°	305.2	15.9
60°-70°	46.8	2.4
70°-80°	1.8	0.1
80°-90°	0.9	0.0
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°	715.3	37.3
0°-40°	1143.6	59.6
0°-60°	1868.8	97.4
0°-90°	1918.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	964	
5°	957	91
15°	900	253
25°	806	371
35°	687	428
45°	547	420
55°	364	305
65°	27	47
75°	2	2
85°	1	1
90°	0	

TEST NUMBER: P866232

CATALOG NUMBER: PRLX-2002-M-930-25L-L-U-S-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	964.1
2.5°	962.8
5°	956.8
7.5°	946.8
10°	934.2
12.5°	918.2
15°	900.3
17.5°	879.0
20°	856.4
22.5°	831.8
25°	806.5
27.5°	778.6
30°	750.0
32.5°	716.8
35°	686.9
37.5°	650.3
40°	617.7
42.5°	580.5
45°	546.6
47.5°	506.0
50°	470.8
52.5°	423.6
55°	363.7
57.5°	268.6
60°	162.2
62.5°	77.1
65°	26.6
67.5°	6.6
70°	2.0
72.5°	2.0
75°	2.0
77.5°	1.3
80°	1.3
82.5°	1.3
85°	0.7
87.5°	0.7
90°	0.0



TEST NUMBER: P866232
 CATALOG NUMBER: PRLX-2002-M-930-25L-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	16.51	17.93	16.88	18.24	18.55	16.51	17.93	16.88	18.24	18.55
	3H	16.40	17.64	16.77	17.97	18.33	16.40	17.64	16.77	17.97	18.33
	4H	16.33	17.48	16.73	17.83	18.21	16.33	17.48	16.73	17.83	18.21
	6H	16.26	17.31	16.67	17.68	18.08	16.26	17.31	16.67	17.68	18.08
	8H	16.22	17.22	16.65	17.61	18.01	16.22	17.22	16.65	17.61	18.01
	12H	16.18	17.13	16.61	17.52	17.95	16.18	17.13	16.61	17.52	17.95
4H	2H	16.35	17.50	16.75	17.85	18.23	16.35	17.50	16.75	17.85	18.23
	3H	16.24	17.16	16.65	17.56	17.97	16.24	17.16	16.65	17.56	17.97
	4H	16.15	16.98	16.59	17.39	17.84	16.15	16.98	16.59	17.39	17.84
	6H	16.08	16.79	16.54	17.23	17.70	16.08	16.79	16.54	17.23	17.70
	8H	16.02	16.68	16.49	17.13	17.60	16.02	16.68	16.49	17.13	17.60
	12H	15.98	16.56	16.46	17.05	17.52	15.98	16.56	16.46	17.05	17.52
8H	4H	16.02	16.68	16.49	17.13	17.60	16.02	16.68	16.49	17.13	17.60
	6H	15.92	16.46	16.42	16.96	17.44	15.92	16.46	16.42	16.96	17.44
	8H	15.85	16.35	16.37	16.86	17.35	15.85	16.35	16.37	16.86	17.35
	12H	15.80	16.25	16.32	16.74	17.31	15.80	16.25	16.32	16.74	17.31
12H	4H	15.98	16.56	16.46	17.05	17.52	15.98	16.56	16.46	17.05	17.52
	6H	15.85	16.35	16.37	16.86	17.35	15.85	16.35	16.37	16.86	17.35
	8H	15.80	16.25	16.32	16.74	17.31	15.80	16.25	16.32	16.74	17.31