

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: P866262

Luminaire Tested: PRLX-2002-M-930-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-65L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

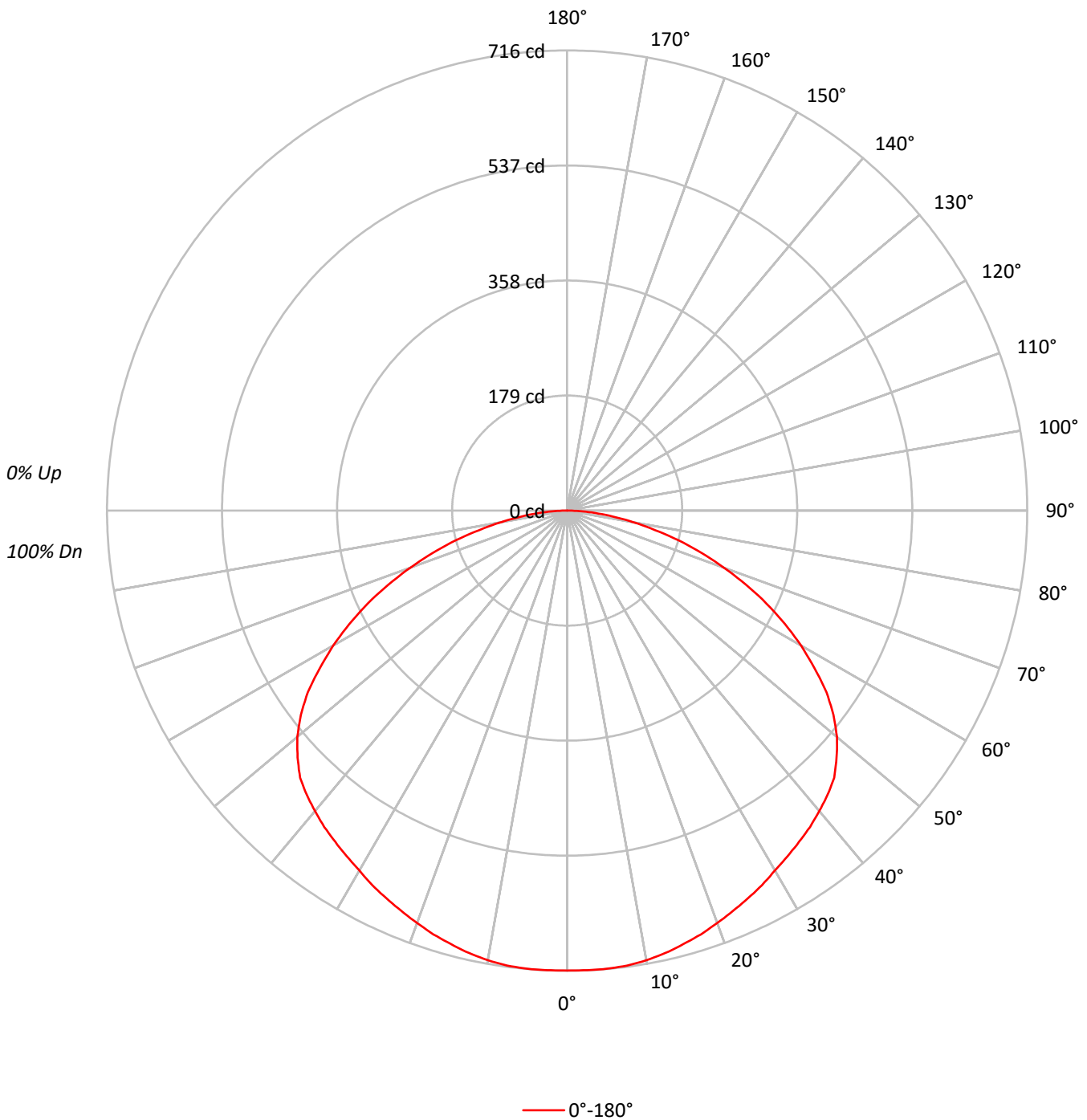
Lumens per Lamp: N/A
Luminaire Lumens: 2435.8 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: P866262

CATALOG NUMBER: PRLX-2002-M-930-65L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P866262

CATALOG NUMBER: PRLX-2002-M-930-65L-G-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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	55	50		60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	44	38	51	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	31
8	58	44	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5694
5°	5716
10°	5740
15°	5752
20°	5782
25°	5843
30°	5940
35°	6112
40°	6338
45°	6613
50°	6783
55°	6834
60°	6684
65°	6444
70°	6032
75°	5527
80°	4834
85°	3943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 6834 cd/sqm

TEST NUMBER: P866262

CATALOG NUMBER: PRLX-2002-M-930-65L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	2.8
10°-20°	197.5	8.1
20°-30°	307.5	12.6
30°-40°	394.7	16.2
40°-50°	451.6	18.5
50°-60°	437.4	18.0
60°-70°	337.7	13.9
70°-80°	190.3	7.8
80°-90°	51.0	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°	573.1	23.5
0°-40°	967.8	39.7
0°-60°	1856.8	76.2
0°-90°	2435.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	716	
5°	716	68
15°	698	197
25°	666	307
35°	629	395
45°	588	452
55°	493	437
65°	342	338
75°	180	190
85°	43	51
90°	0	

TEST NUMBER: P866262

CATALOG NUMBER: PRLX-2002-M-930-65L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	715.7
2.5°	715.7
5°	715.7
7.5°	714.0
10°	710.5
12.5°	705.3
15°	698.4
17.5°	691.5
20°	682.9
22.5°	674.2
25°	665.6
27.5°	656.9
30°	646.6
32.5°	637.9
35°	629.3
37.5°	620.6
40°	610.3
42.5°	599.9
45°	587.8
47.5°	568.8
50°	548.0
52.5°	522.1
55°	492.7
57.5°	456.4
60°	420.1
62.5°	382.1
65°	342.3
67.5°	300.8
70°	259.3
72.5°	219.6
75°	179.8
77.5°	140.0
80°	105.5
82.5°	72.6
85°	43.2
87.5°	19.0
90°	0.0



TEST NUMBER: P866262
 CATALOG NUMBER: PRLX-2002-M-930-65L-G-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	19.16	20.87	19.53	21.18	21.49	19.16	20.87	19.53	21.18	21.49
	3H	20.98	22.53	21.36	22.85	23.21	20.98	22.53	21.36	22.85	23.21
	4H	21.64	23.10	22.04	23.45	23.82	21.64	23.10	22.04	23.45	23.82
	6H	22.11	23.46	22.52	23.83	24.21	22.11	23.46	22.52	23.83	24.21
	8H	22.25	23.55	22.68	23.94	24.33	22.25	23.55	22.68	23.94	24.33
	12H	22.35	23.59	22.78	23.97	24.40	22.35	23.59	22.78	23.97	24.40
4H	2H	19.82	21.28	20.22	21.63	22.00	19.82	21.28	20.22	21.63	22.00
	3H	21.85	23.08	22.26	23.47	23.87	21.85	23.08	22.26	23.47	23.87
	4H	22.64	23.75	23.07	24.16	24.60	22.64	23.75	23.07	24.16	24.60
	6H	23.23	24.20	23.68	24.64	25.09	23.23	24.20	23.68	24.64	25.09
	8H	23.42	24.33	23.88	24.77	25.23	23.42	24.33	23.88	24.77	25.23
	12H	23.55	24.38	24.03	24.85	25.32	23.55	24.38	24.03	24.85	25.32
8H	4H	22.95	23.86	23.41	24.30	24.77	22.95	23.86	23.41	24.30	24.77
	6H	23.65	24.41	24.14	24.90	25.37	23.65	24.41	24.14	24.90	25.37
	8H	23.91	24.59	24.42	25.10	25.58	23.91	24.59	24.42	25.10	25.58
	12H	24.12	24.72	24.62	25.21	25.77	24.12	24.72	24.62	25.21	25.77
12H	4H	22.98	23.81	23.46	24.28	24.75	22.98	23.81	23.46	24.28	24.75
	6H	23.71	24.39	24.21	24.89	25.38	23.71	24.39	24.21	24.89	25.38
	8H	24.02	24.63	24.53	25.12	25.67	24.02	24.63	24.53	25.12	25.67