

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: P865686

Luminaire Tested: PRLX-2002-S-935-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-935-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

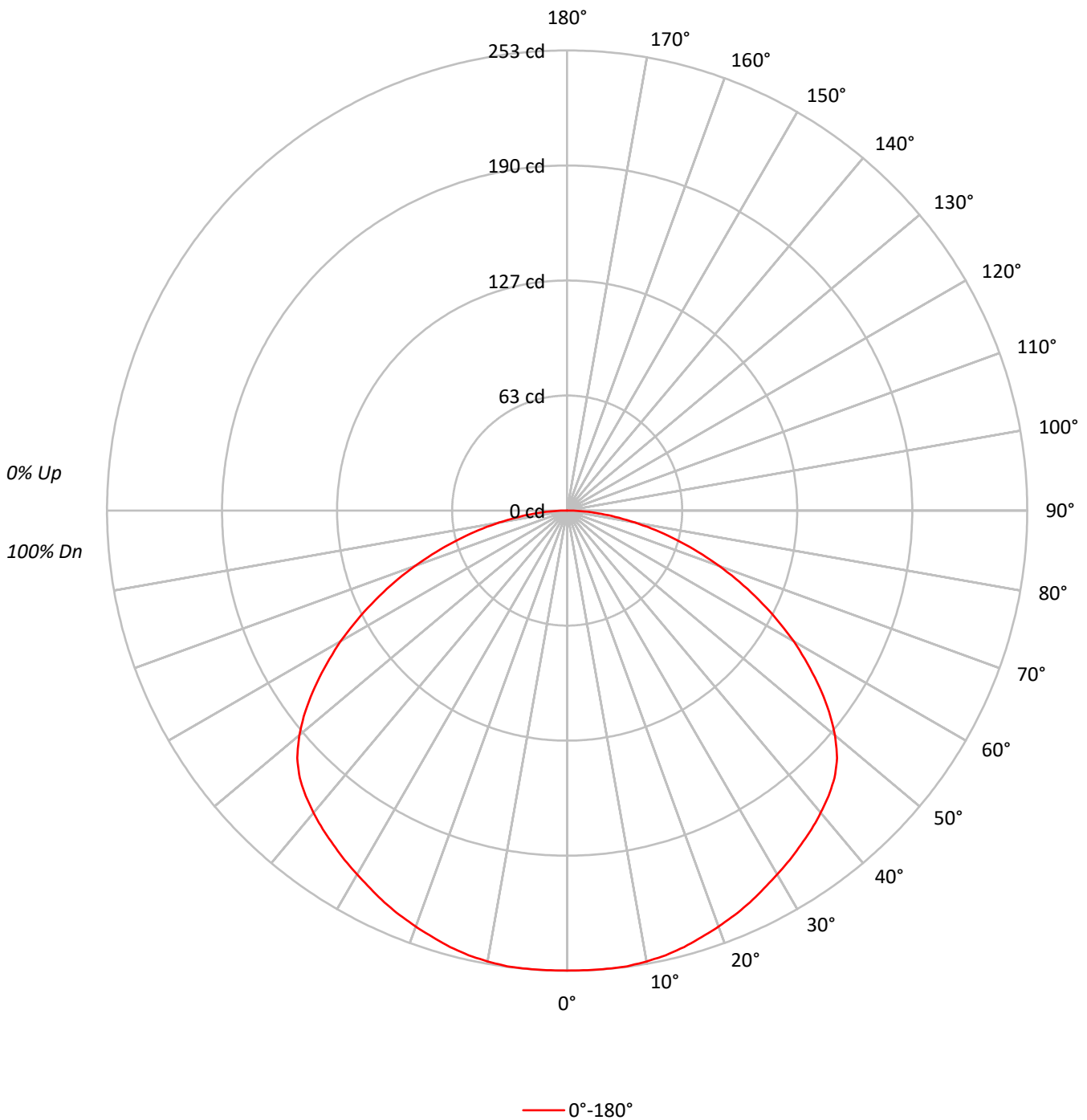
Lumens per Lamp: N/A
Luminaire Lumens: 856.4 lumens
Efficiency: N/A
Efficacy: 29.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: P865686

CATALOG NUMBER: PRLX-2002-S-935-25L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot



TEST NUMBER: P865686

CATALOG NUMBER: PRLX-2002-S-935-25L-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	65	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4751
5°	4769
10°	4801
15°	4831
20°	4866
25°	4927
30°	5008
35°	5141
40°	5319
45°	5523
50°	5620
55°	5548
60°	5406
65°	5169
70°	4883
75°	4514
80°	4089
85°	3707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5620 cd/sqm

TEST NUMBER: P865686

CATALOG NUMBER: PRLX-2002-S-935-25L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	2.8
10°-20°	70.2	8.2
20°-30°	109.7	12.8
30°-40°	140.7	16.4
40°-50°	159.8	18.7
50°-60°	151.2	17.6
60°-70°	115.2	13.4
70°-80°	66.1	7.7
80°-90°	19.5	2.3
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°	204.0	23.8
0°-40°	344.7	40.2
0°-60°	655.6	76.6
0°-90°	856.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	856.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	253	
5°	253	24
15°	248	70
25°	238	110
35°	224	141
45°	208	160
55°	169	151
65°	116	115
75°	62	66
85°	17	19
90°	0	

TEST NUMBER: P865686

CATALOG NUMBER: PRLX-2002-S-935-25L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	252.9
2.5°	252.9
5°	252.9
7.5°	252.7
10°	251.7
12.5°	250.4
15°	248.4
17.5°	245.9
20°	243.4
22.5°	240.7
25°	237.7
27.5°	234.3
30°	230.9
32.5°	227.8
35°	224.2
37.5°	220.8
40°	216.9
42.5°	212.8
45°	207.9
47.5°	201.3
50°	192.3
52.5°	181.6
55°	169.4
57.5°	156.7
60°	143.9
62.5°	130.1
65°	116.3
67.5°	102.7
70°	88.9
72.5°	75.5
75°	62.2
77.5°	49.8
80°	37.8
82.5°	26.7
85°	17.2
87.5°	8.8
90°	0.0



TEST NUMBER: P865686
 CATALOG NUMBER: PRLX-2002-S-935-25L-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	18.36	20.06	18.72	20.37	20.68	18.36	20.06	18.72	20.37	20.68
	3H	20.16	21.70	20.54	22.03	22.39	20.16	21.70	20.54	22.03	22.39
	4H	20.84	22.29	21.23	22.63	23.01	20.84	22.29	21.23	22.63	23.01
	6H	21.34	22.69	21.75	23.05	23.44	21.34	22.69	21.75	23.05	23.44
	8H	21.50	22.79	21.93	23.18	23.58	21.50	22.79	21.93	23.18	23.58
	12H	21.62	22.86	22.05	23.24	23.67	21.62	22.86	22.05	23.24	23.67
4H	2H	19.00	20.45	19.40	20.80	21.17	19.00	20.45	19.40	20.80	21.17
	3H	21.03	22.25	21.44	22.64	23.04	21.03	22.25	21.44	22.64	23.04
	4H	21.83	22.94	22.26	23.35	23.78	21.83	22.94	22.26	23.35	23.78
	6H	22.46	23.43	22.91	23.87	24.32	22.46	23.43	22.91	23.87	24.32
	8H	22.68	23.59	23.13	24.03	24.49	22.68	23.59	23.13	24.03	24.49
	12H	22.85	23.67	23.32	24.14	24.61	22.85	23.67	23.32	24.14	24.61
8H	4H	22.15	23.06	22.61	23.50	23.96	22.15	23.06	22.61	23.50	23.96
	6H	22.91	23.67	23.40	24.15	24.63	22.91	23.67	23.40	24.15	24.63
	8H	23.20	23.88	23.70	24.38	24.87	23.20	23.88	23.70	24.38	24.87
	12H	23.45	24.05	23.95	24.54	25.10	23.45	24.05	23.95	24.54	25.10
12H	4H	22.19	23.01	22.67	23.48	23.95	22.19	23.01	22.67	23.48	23.95
	6H	22.97	23.65	23.48	24.16	24.64	22.97	23.65	23.48	24.16	24.64
	8H	23.32	23.93	23.83	24.41	24.97	23.32	23.93	23.83	24.41	24.97