

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: P865494

Luminaire Tested: PRLX-2001-S-935-05L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-05L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

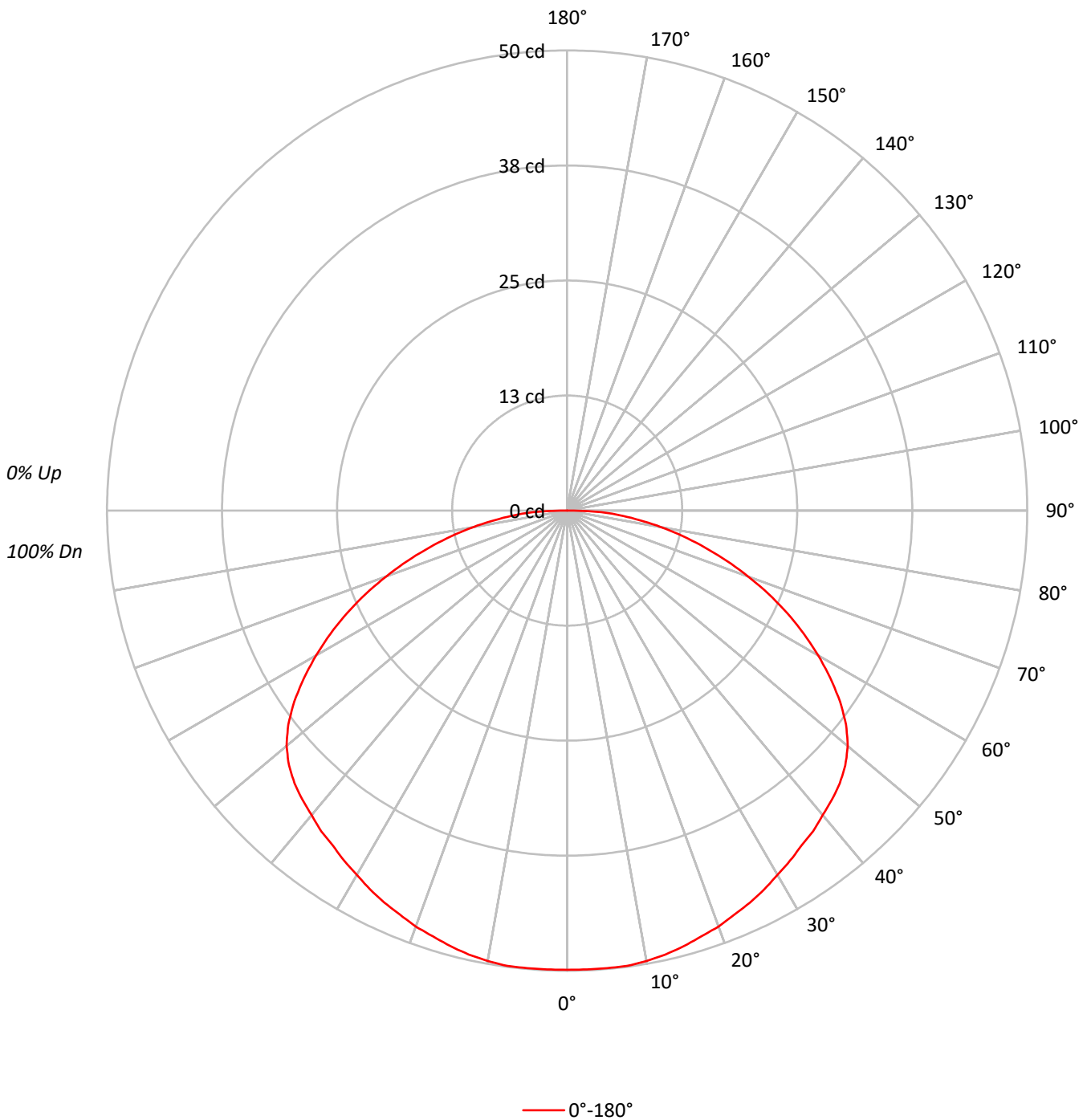
Lumens per Lamp: N/A
Luminaire Lumens: 181.3 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865494

CATALOG NUMBER: PRLX-2001-S-935-05L-G-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865494

CATALOG NUMBER: PRLX-2001-S-935-05L-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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	57		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	814
5°	817
10°	823
15°	827
20°	835
25°	846
30°	861
35°	884
40°	920
45°	966
50°	1010
55°	1029
60°	1028
65°	1019
70°	997
75°	977
80°	977
85°	1067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 1384 cd/sqm

TEST NUMBER: P865494

CATALOG NUMBER: PRLX-2001-S-935-05L-G-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	2.6
10°-20°	13.9	7.6
20°-30°	21.7	12.0
30°-40°	27.9	15.4
40°-50°	32.3	17.8
50°-60°	32.2	17.8
60°-70°	26.1	14.4
70°-80°	16.4	9.1
80°-90°	6.1	3.4
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°	40.3	22.2
0°-40°	68.2	37.6
0°-60°	132.7	73.2
0°-90°	181.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	181.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	50	
5°	50	5
15°	49	14
25°	47	22
35°	44	28
45°	42	32
55°	36	32
65°	26	26
75°	16	16
85°	6	6
90°	0	

TEST NUMBER: P865494

CATALOG NUMBER: PRLX-2001-S-935-05L-G-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	49.9
2.5°	49.9
5°	49.9
7.5°	49.9
10°	49.7
12.5°	49.4
15°	49.0
17.5°	48.5
20°	48.1
22.5°	47.5
25°	47.0
27.5°	46.4
30°	45.7
32.5°	45.1
35°	44.4
37.5°	43.9
40°	43.2
42.5°	42.6
45°	41.9
47.5°	41.0
50°	39.8
52.5°	38.2
55°	36.2
57.5°	33.9
60°	31.5
62.5°	29.0
65°	26.4
67.5°	23.7
70°	20.9
72.5°	18.2
75°	15.5
77.5°	12.9
80°	10.4
82.5°	7.9
85°	5.7
87.5°	3.7
90°	0.0

TEST NUMBER: P865494

CATALOG NUMBER: PRLX-2001-S-935-05L-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	12.58	14.31	12.94	14.63	14.94	12.58	14.31	12.94	14.63	14.94
	3H	14.60	16.18	14.98	16.51	16.87	14.60	16.18	14.98	16.51	16.87
	4H	15.41	16.91	15.81	17.25	17.63	15.41	16.91	15.81	17.25	17.63
	6H	16.09	17.48	16.50	17.84	18.23	16.09	17.48	16.50	17.84	18.23
	8H	16.35	17.69	16.78	18.08	18.47	16.35	17.69	16.78	18.08	18.47
	12H	16.58	17.86	17.01	18.24	18.67	16.58	17.86	17.01	18.24	18.67
4H	2H	13.29	14.78	13.68	15.13	15.50	13.29	14.78	13.68	15.13	15.50
	3H	15.54	16.80	15.94	17.20	17.60	15.54	16.80	15.94	17.20	17.60
	4H	16.49	17.64	16.92	18.05	18.49	16.49	17.64	16.92	18.05	18.49
	6H	17.32	18.34	17.77	18.77	19.22	17.32	18.34	17.77	18.77	19.22
	8H	17.65	18.61	18.11	19.05	19.51	17.65	18.61	18.11	19.05	19.51
	12H	17.95	18.82	18.43	19.29	19.75	17.95	18.82	18.43	19.29	19.75
8H	4H	16.89	17.84	17.34	18.28	18.74	16.89	17.84	17.34	18.28	18.74
	6H	17.88	18.68	18.37	19.16	19.63	17.88	18.68	18.37	19.16	19.63
	8H	18.31	19.03	18.81	19.53	20.02	18.31	19.03	18.81	19.53	20.02
	12H	18.73	19.37	19.23	19.86	20.41	18.73	19.37	19.23	19.86	20.41
12H	4H	16.95	17.81	17.43	18.29	18.75	16.95	17.81	17.43	18.29	18.75
	6H	17.98	18.70	18.48	19.20	19.68	17.98	18.70	18.48	19.20	19.68
	8H	18.49	19.13	18.99	19.62	20.17	18.49	19.13	18.99	19.62	20.17