

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: P865507

Luminaire Tested: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

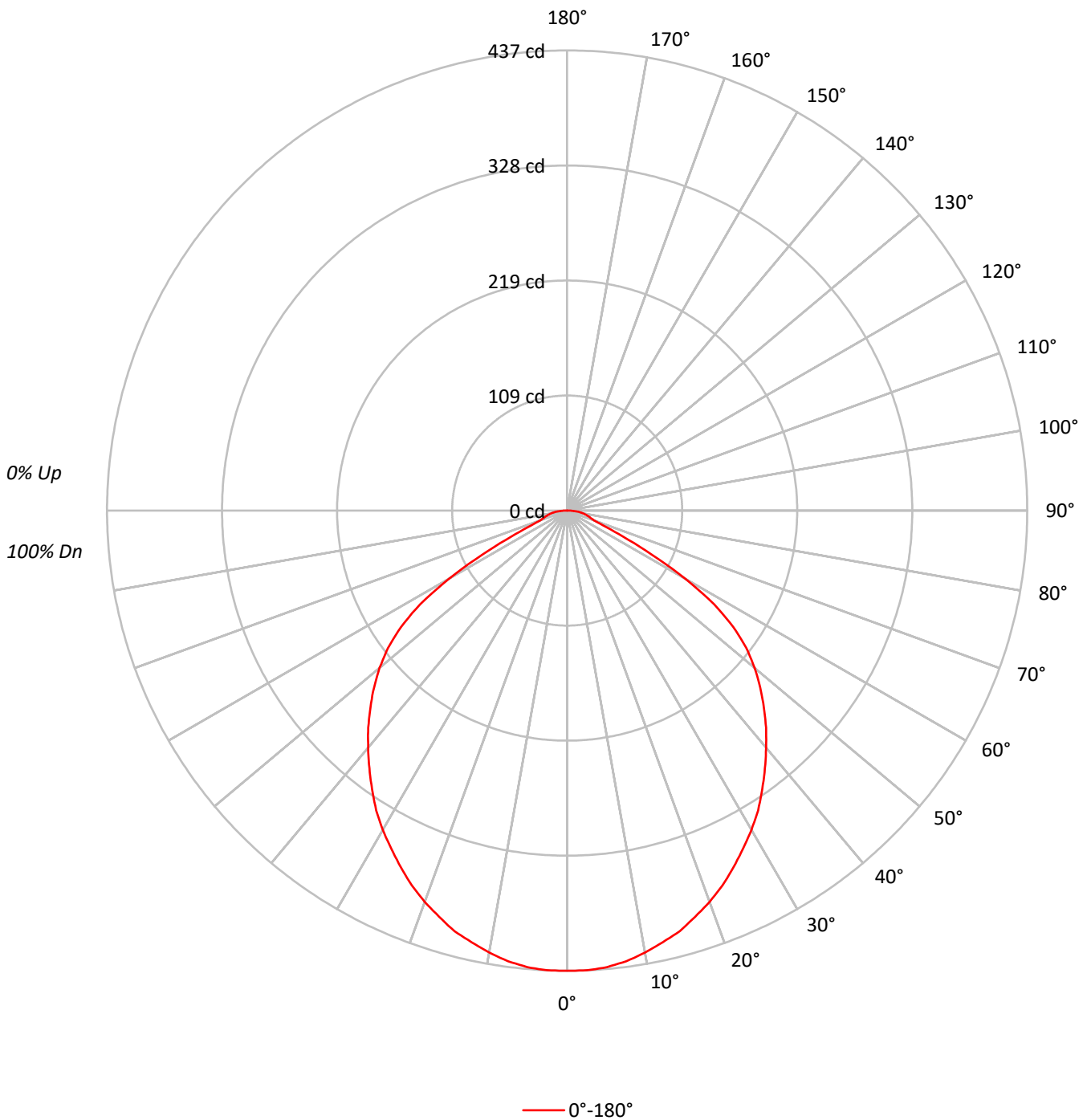
Lumens per Lamp: N/A
Luminaire Lumens: 1000.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: P865507

CATALOG NUMBER: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P865507

CATALOG NUMBER: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7128
5°	7125
10°	7057
15°	6982
20°	6863
25°	6725
30°	6594
35°	6431
40°	6260
45°	6094
50°	5899
55°	5480
60°	4221
65°	2235
70°	1292
75°	1311
80°	1446
85°	1684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6094 cd/sqm

TEST NUMBER: P865507

CATALOG NUMBER: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	4.1
10°-20°	116.4	11.6
20°-30°	172.2	17.2
30°-40°	202.1	20.2
40°-50°	203.8	20.4
50°-60°	168.2	16.8
60°-70°	64.8	6.5
70°-80°	22.1	2.2
80°-90°	9.2	0.9
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°	329.9	33.0
0°-40°	531.9	53.2
0°-60°	903.9	90.4
0°-90°	1000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1000.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	437	
5°	435	41
15°	414	116
25°	374	172
35°	323	202
45°	264	204
55°	193	168
65°	58	65
75°	21	22
85°	9	9
90°	0	

TEST NUMBER: P865507

CATALOG NUMBER: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	437.0
2.5°	437.0
5°	435.2
7.5°	431.6
10°	426.1
12.5°	419.8
15°	413.5
17.5°	404.4
20°	395.4
22.5°	385.4
25°	373.7
27.5°	361.9
30°	350.1
32.5°	337.5
35°	323.0
37.5°	308.5
40°	294.0
42.5°	279.6
45°	264.2
47.5°	248.8
50°	232.5
52.5°	214.4
55°	192.7
57.5°	165.6
60°	129.4
62.5°	90.5
65°	57.9
67.5°	37.1
70°	27.1
72.5°	23.5
75°	20.8
77.5°	18.1
80°	15.4
82.5°	12.7
85°	9.0
87.5°	4.5
90°	0.0



TEST NUMBER: P865507
 CATALOG NUMBER: PRLX-2001-S-935-10L-L-U-S-X-X-WHHR-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	17.88	19.39	18.24	19.70	20.02	17.88	19.39	18.24	19.70	20.02
	3H	18.02	19.36	18.40	19.69	20.05	18.02	19.36	18.40	19.69	20.05
	4H	18.08	19.34	18.48	19.69	20.06	18.08	19.34	18.48	19.69	20.06
	6H	18.16	19.32	18.58	19.69	20.08	18.16	19.32	18.58	19.69	20.08
	8H	18.21	19.31	18.63	19.70	20.10	18.21	19.31	18.63	19.70	20.10
	12H	18.25	19.30	18.68	19.68	20.11	18.25	19.30	18.68	19.68	20.11
4H	2H	17.92	19.17	18.32	19.52	19.90	17.92	19.17	18.32	19.52	19.90
	3H	18.13	19.16	18.54	19.56	19.96	18.13	19.16	18.54	19.56	19.96
	4H	18.25	19.17	18.68	19.59	20.03	18.25	19.17	18.68	19.59	20.03
	6H	18.42	19.22	18.88	19.66	20.12	18.42	19.22	18.88	19.66	20.12
	8H	18.50	19.25	18.97	19.69	20.16	18.50	19.25	18.97	19.69	20.16
	12H	18.59	19.26	19.07	19.74	20.21	18.59	19.26	19.07	19.74	20.21
8H	4H	18.24	18.99	18.71	19.44	19.90	18.24	18.99	18.71	19.44	19.90
	6H	18.48	19.10	18.98	19.59	20.07	18.48	19.10	18.98	19.59	20.07
	8H	18.62	19.18	19.14	19.69	20.18	18.62	19.18	19.14	19.69	20.18
	12H	18.78	19.28	19.29	19.77	20.34	18.78	19.28	19.29	19.77	20.34
12H	4H	18.23	18.90	18.72	19.38	19.85	18.23	18.90	18.72	19.38	19.85
	6H	18.48	19.03	18.99	19.55	20.03	18.48	19.03	18.99	19.55	20.03
	8H	18.67	19.16	19.18	19.66	20.22	18.67	19.16	19.18	19.66	20.22