

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: P866051

Luminaire Tested: PRLX-2001-M-935-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-35L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

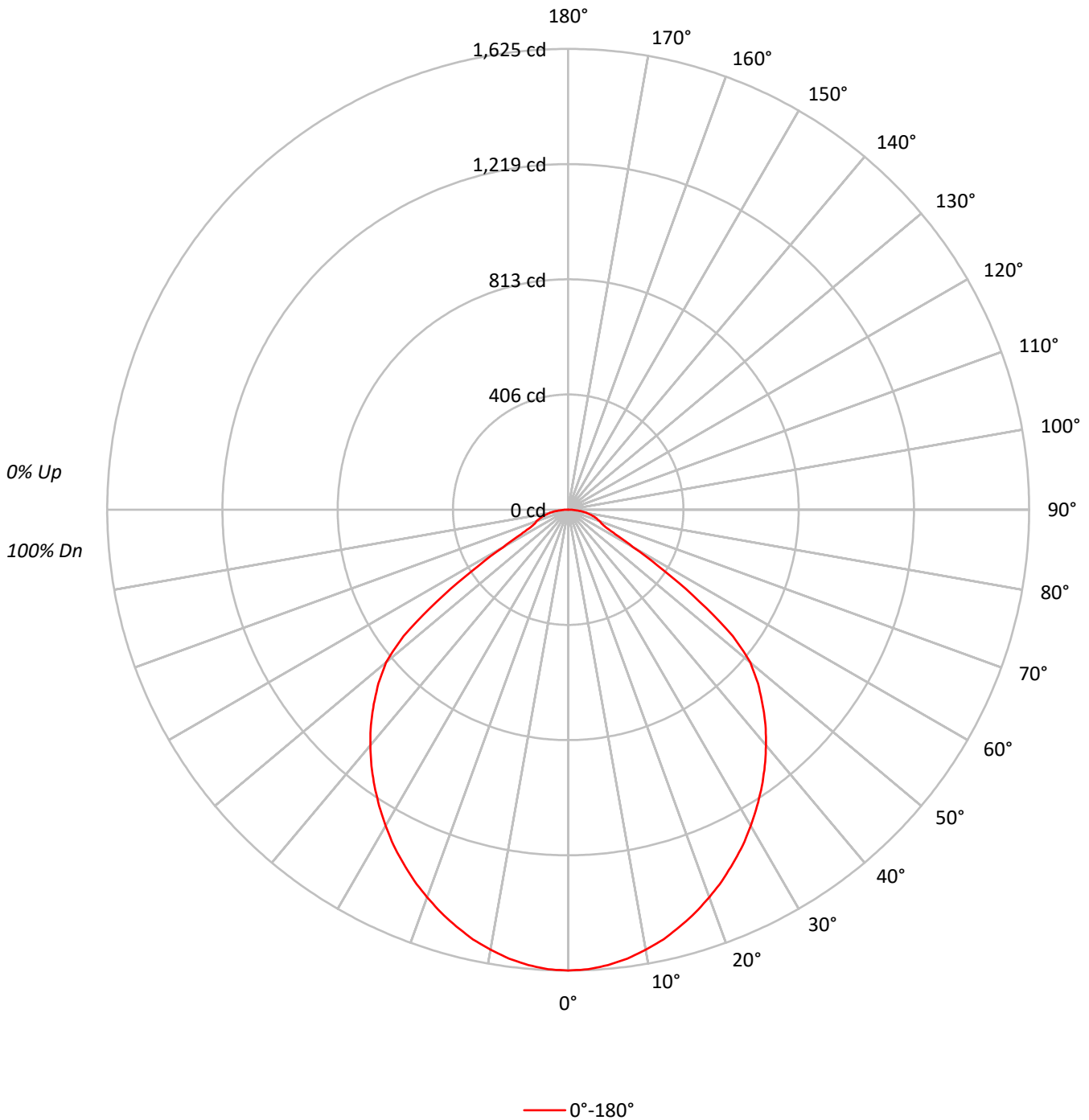
Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: P866051

CATALOG NUMBER: PRLX-2001-M-935-35L-L-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P866051

CATALOG NUMBER: PRLX-2001-M-935-35L-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	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13790
5°	13729
10°	13577
15°	13367
20°	13131
25°	12876
30°	12610
35°	12328
40°	12015
45°	11625
50°	11059
55°	8374
60°	4498
65°	2899
70°	2923
75°	3082
80°	3201
85°	3233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11625 cd/sqm

TEST NUMBER: P866051

CATALOG NUMBER: PRLX-2001-M-935-35L-L-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	4.4
10°-20°	429.0	12.3
20°-30°	633.7	18.1
30°-40°	744.1	21.3
40°-50°	746.0	21.3
50°-60°	499.5	14.3
60°-70°	160.5	4.6
70°-80°	98.1	2.8
80°-90°	36.3	1.0
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°	1215.4	34.7
0°-40°	1959.5	56.0
0°-60°	3205.0	91.6
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1625	
5°	1612	153
15°	1522	429
25°	1375	634
35°	1190	744
45°	969	746
55°	566	500
65°	144	160
75°	94	98
85°	33	36
90°	0	

TEST NUMBER: P866051

CATALOG NUMBER: PRLX-2001-M-935-35L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	1625.0
2.5°	1622.2
5°	1611.7
7.5°	1596.5
10°	1575.6
12.5°	1551.9
15°	1521.5
17.5°	1490.1
20°	1454.1
22.5°	1417.0
25°	1375.2
27.5°	1333.4
30°	1286.9
32.5°	1239.4
35°	1190.0
37.5°	1138.7
40°	1084.6
42.5°	1029.5
45°	968.7
47.5°	907.0
50°	837.7
52.5°	731.3
55°	566.0
57.5°	401.7
60°	265.0
62.5°	187.1
65°	144.4
67.5°	127.3
70°	117.8
72.5°	106.4
75°	94.0
77.5°	79.8
80°	65.5
82.5°	50.3
85°	33.2
87.5°	17.1
90°	0.0



TEST NUMBER: P866051
 CATALOG NUMBER: PRLX-2001-M-935-35L-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	17.40	18.87	17.76	19.18	19.50	17.40	18.87	17.76	19.18	19.50
	3H	17.88	19.19	18.25	19.52	19.88	17.88	19.19	18.25	19.52	19.88
	4H	18.20	19.42	18.60	19.77	20.15	18.20	19.42	18.60	19.77	20.15
	6H	18.53	19.65	18.94	20.02	20.41	18.53	19.65	18.94	20.02	20.41
	8H	18.66	19.73	19.09	20.12	20.53	18.66	19.73	19.09	20.12	20.53
	12H	18.77	19.79	19.20	20.18	20.61	18.77	19.79	19.20	20.18	20.61
4H	2H	17.43	18.65	17.83	19.00	19.38	17.43	18.65	17.83	19.00	19.38
	3H	18.14	19.14	18.55	19.54	19.94	18.14	19.14	18.55	19.54	19.94
	4H	18.61	19.51	19.05	19.93	20.37	18.61	19.51	19.05	19.93	20.37
	6H	19.11	19.89	19.57	20.33	20.80	19.11	19.89	19.57	20.33	20.80
	8H	19.32	20.05	19.79	20.49	20.96	19.32	20.05	19.79	20.49	20.96
	12H	19.49	20.14	19.98	20.62	21.10	19.49	20.14	19.98	20.62	21.10
8H	4H	18.78	19.51	19.24	19.95	20.42	18.78	19.51	19.24	19.95	20.42
	6H	19.41	20.02	19.91	20.51	20.99	19.41	20.02	19.91	20.51	20.99
	8H	19.71	20.25	20.22	20.77	21.26	19.71	20.25	20.22	20.77	21.26
	12H	19.97	20.46	20.48	20.96	21.52	19.97	20.46	20.48	20.96	21.52
12H	4H	18.79	19.44	19.28	19.92	20.39	18.79	19.44	19.28	19.92	20.39
	6H	19.45	20.00	19.97	20.51	21.00	19.45	20.00	19.97	20.51	21.00
	8H	19.81	20.30	20.32	20.80	21.36	19.81	20.30	20.32	20.80	21.36