

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: P865983

Luminaire Tested: PRLX-2001-M-930-35L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-930-35L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

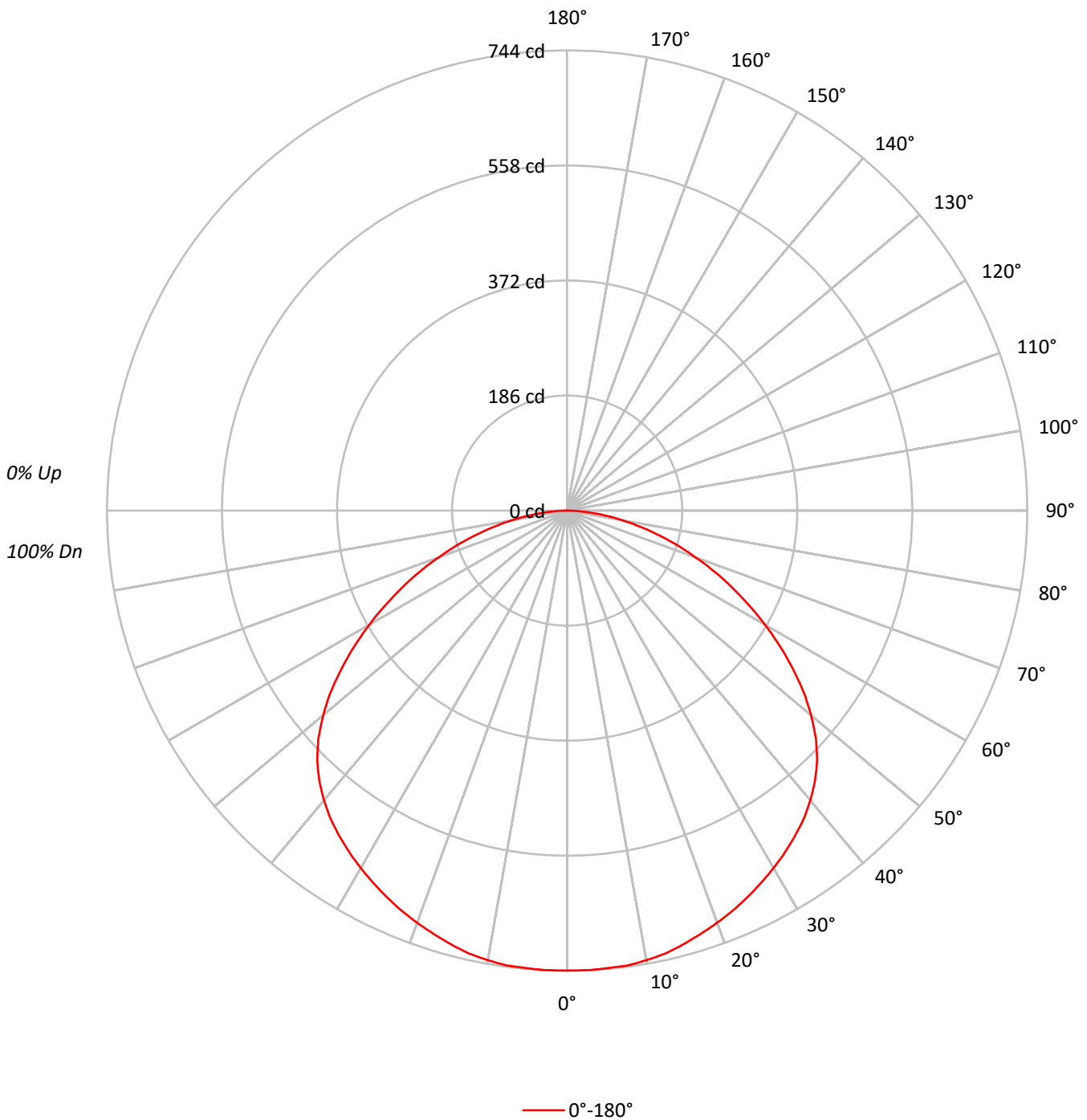
Lumens per Lamp: N/A
Luminaire Lumens: 2331.7 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: P865983

CATALOG NUMBER: PRLX-2001-M-930-35L-G-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot





TEST NUMBER: P865983

CATALOG NUMBER: PRLX-2001-M-930-35L-G-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6312
5°	6327
10°	6361
15°	6379
20°	6405
25°	6459
30°	6540
35°	6654
40°	6775
45°	6860
50°	6796
55°	6584
60°	6273
65°	5907
70°	5473
75°	5036
80°	4457
85°	3622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6860 cd/sqm

TEST NUMBER: P865983

CATALOG NUMBER: PRLX-2001-M-930-35L-G-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.0
10°-20°	205.2	8.8
20°-30°	318.4	13.7
30°-40°	402.2	17.2
40°-50°	439.1	18.8
50°-60°	397.3	17.0
60°-70°	291.5	12.5
70°-80°	162.8	7.0
80°-90°	44.3	1.9
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°	594.4	25.5
0°-40°	996.6	42.7
0°-60°	1833.0	78.6
0°-90°	2331.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2331.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	744	
5°	743	71
15°	726	205
25°	690	318
35°	642	402
45°	572	439
55°	445	397
65°	294	292
75°	154	163
85°	37	44
90°	0	

TEST NUMBER: P865983

CATALOG NUMBER: PRLX-2001-M-930-35L-G-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	743.8
2.5°	743.8
5°	742.8
7.5°	741.9
10°	738.2
12.5°	733.5
15°	726.1
17.5°	717.7
20°	709.3
22.5°	700.0
25°	689.8
27.5°	678.6
30°	667.4
32.5°	655.3
35°	642.3
37.5°	628.3
40°	611.6
42.5°	593.0
45°	571.6
47.5°	545.5
50°	514.8
52.5°	482.2
55°	445.0
57.5°	407.7
60°	369.6
62.5°	331.4
65°	294.2
67.5°	257.9
70°	220.6
72.5°	187.1
75°	153.6
77.5°	121.0
80°	91.2
82.5°	63.3
85°	37.2
87.5°	16.8
90°	0.0



TEST NUMBER: P865983
 CATALOG NUMBER: PRLX-2001-M-930-35L-G-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	18.80	20.46	19.16	20.78	21.09	18.80	20.46	19.16	20.78	21.09
	3H	20.49	21.99	20.87	22.32	22.68	20.49	21.99	20.87	22.32	22.68
	4H	21.12	22.54	21.52	22.88	23.26	21.12	22.54	21.52	22.88	23.26
	6H	21.57	22.89	21.98	23.25	23.64	21.57	22.89	21.98	23.25	23.64
	8H	21.72	22.97	22.14	23.36	23.76	21.72	22.97	22.14	23.36	23.76
	12H	21.81	23.01	22.24	23.39	23.82	21.81	23.01	22.24	23.39	23.82
4H	2H	19.40	20.82	19.80	21.17	21.54	19.40	20.82	19.80	21.17	21.54
	3H	21.31	22.50	21.72	22.90	23.30	21.31	22.50	21.72	22.90	23.30
	4H	22.07	23.14	22.50	23.56	23.99	22.07	23.14	22.50	23.56	23.99
	6H	22.65	23.59	23.10	24.03	24.48	22.65	23.59	23.10	24.03	24.48
	8H	22.84	23.72	23.30	24.16	24.63	22.84	23.72	23.30	24.16	24.63
	12H	22.97	23.76	23.45	24.24	24.71	22.97	23.76	23.45	24.24	24.71
8H	4H	22.36	23.25	22.82	23.69	24.15	22.36	23.25	22.82	23.69	24.15
	6H	23.06	23.79	23.55	24.28	24.76	23.06	23.79	23.55	24.28	24.76
	8H	23.32	23.98	23.83	24.48	24.97	23.32	23.98	23.83	24.48	24.97
	12H	23.52	24.10	24.02	24.59	25.15	23.52	24.10	24.02	24.59	25.15
12H	4H	22.40	23.19	22.88	23.66	24.13	22.40	23.19	22.88	23.66	24.13
	6H	23.11	23.77	23.62	24.28	24.76	23.11	23.77	23.62	24.28	24.76
	8H	23.43	24.01	23.93	24.50	25.06	23.43	24.01	23.93	24.50	25.06