

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: P866726

Luminaire Tested: PRLX-2001-L-930-100L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-100L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

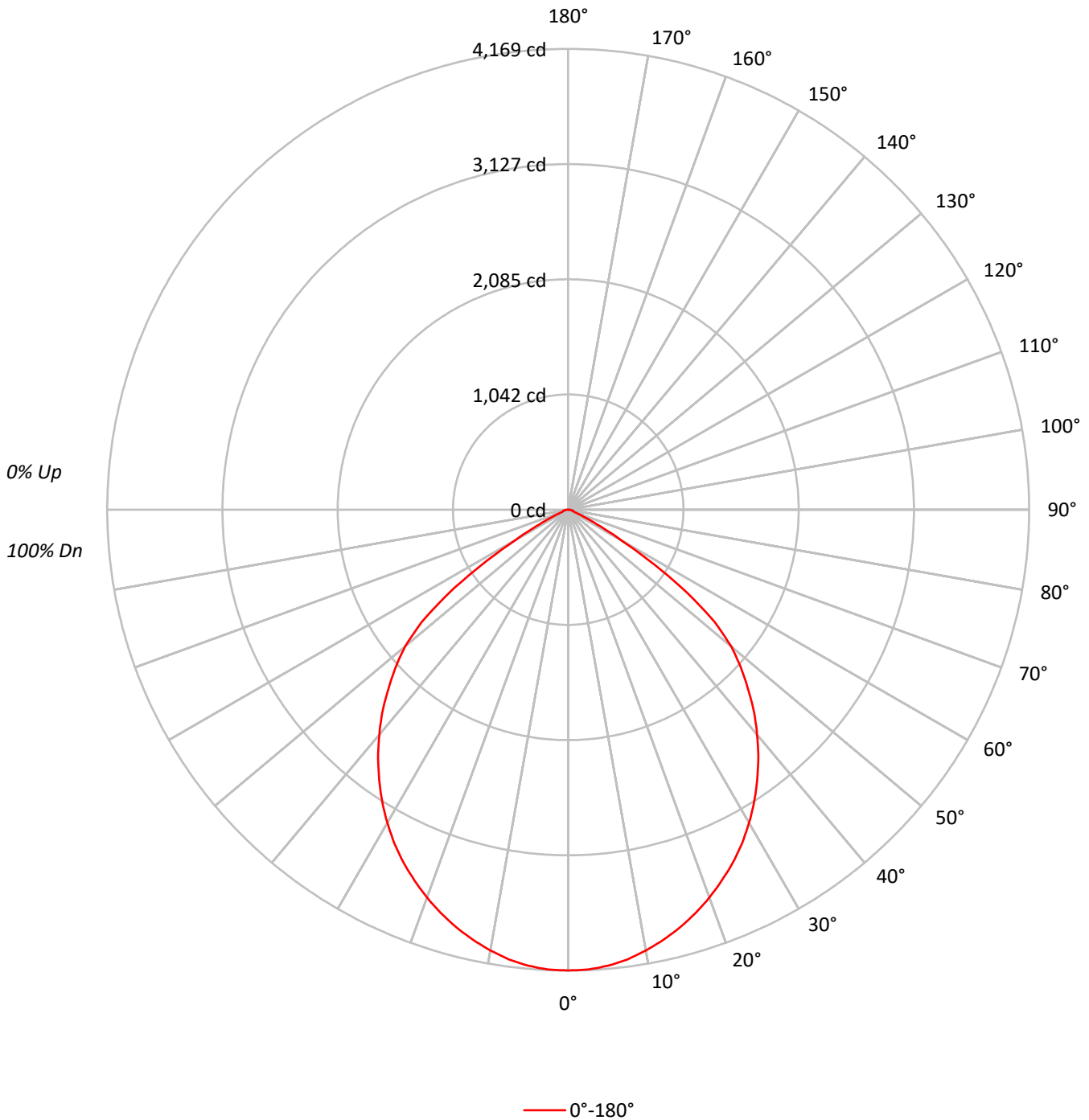
Lumens per Lamp: N/A
Luminaire Lumens: 8187.8 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: P866726

CATALOG NUMBER: PRLX-2001-L-930-100L-L-X-X-GREY-X

Luminous Intensity Polar Plot





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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22790
5°	22726
10°	22477
15°	22137
20°	21723
25°	21251
30°	20653
35°	19892
40°	18967
45°	17812
50°	16365
55°	12637
60°	6110
65°	2305
70°	908
75°	1001
80°	1140
85°	1298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17812 cd/sqm

TEST NUMBER: P866726

CATALOG NUMBER: PRLX-2001-L-930-100L-L-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.4	4.8
10°-20°	1102.0	13.5
20°-30°	1620.8	19.8
30°-40°	1861.5	22.7
40°-50°	1774.5	21.7
50°-60°	1145.6	14.0
60°-70°	220.1	2.7
70°-80°	49.6	0.6
80°-90°	21.3	0.3
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°	3115.2	38.0
0°-40°	4976.7	60.8
0°-60°	7896.7	96.4
0°-90°	8187.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8187.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4169	
5°	4141	392
15°	3911	1102
25°	3523	1621
35°	2981	1861
45°	2304	1774
55°	1326	1146
65°	178	220
75°	47	50
85°	21	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4168.8
2.5°	4163.6
5°	4141.2
7.5°	4103.3
10°	4049.1
12.5°	3984.5
15°	3911.3
17.5°	3827.0
20°	3734.0
22.5°	3631.5
25°	3523.1
27.5°	3403.4
30°	3271.7
32.5°	3130.5
35°	2980.6
37.5°	2824.8
40°	2657.8
42.5°	2489.9
45°	2303.9
47.5°	2120.5
50°	1924.2
52.5°	1670.3
55°	1325.9
57.5°	923.8
60°	558.8
62.5°	320.3
65°	178.2
67.5°	93.0
70°	56.8
72.5°	51.7
75°	47.4
77.5°	42.2
80°	36.2
82.5°	29.3
85°	20.7
87.5°	10.3
90°	0.0

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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	18.77	20.17	19.13	20.48	20.80	18.77	20.17	19.13	20.48	20.80
	3H	18.69	19.92	19.07	20.25	20.62	18.69	19.92	19.07	20.25	20.62
	4H	18.64	19.79	19.05	20.14	20.52	18.64	19.79	19.05	20.14	20.52
	6H	18.60	19.65	19.01	20.02	20.41	18.60	19.65	19.01	20.02	20.41
	8H	18.58	19.57	19.01	19.96	20.37	18.58	19.57	19.01	19.96	20.37
	12H	18.55	19.50	18.98	19.89	20.32	18.55	19.50	18.98	19.89	20.32
4H	2H	18.65	19.79	19.05	20.14	20.52	18.65	19.79	19.05	20.14	20.52
	3H	18.59	19.51	19.00	19.91	20.32	18.59	19.51	19.00	19.91	20.32
	4H	18.54	19.36	18.97	19.78	20.22	18.54	19.36	18.97	19.78	20.22
	6H	18.51	19.22	18.98	19.67	20.13	18.51	19.22	18.98	19.67	20.13
	8H	18.49	19.15	18.96	19.60	20.07	18.49	19.15	18.96	19.60	20.07
	12H	18.47	19.06	18.96	19.54	20.01	18.47	19.06	18.96	19.54	20.01
8H	4H	18.43	19.09	18.90	19.54	20.01	18.43	19.09	18.90	19.54	20.01
	6H	18.40	18.95	18.90	19.44	19.92	18.40	18.95	18.90	19.44	19.92
	8H	18.38	18.88	18.90	19.39	19.88	18.38	18.88	18.90	19.39	19.88
	12H	18.38	18.82	18.89	19.32	19.89	18.38	18.82	18.89	19.32	19.89
12H	4H	18.39	18.98	18.87	19.46	19.93	18.39	18.98	18.87	19.46	19.93
	6H	18.35	18.84	18.87	19.36	19.85	18.35	18.84	18.87	19.36	19.85
	8H	18.35	18.80	18.86	19.29	19.86	18.35	18.80	18.86	19.29	19.86