

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: P867036

Luminaire Tested: PRLX-2002-L-930-83L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-83L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

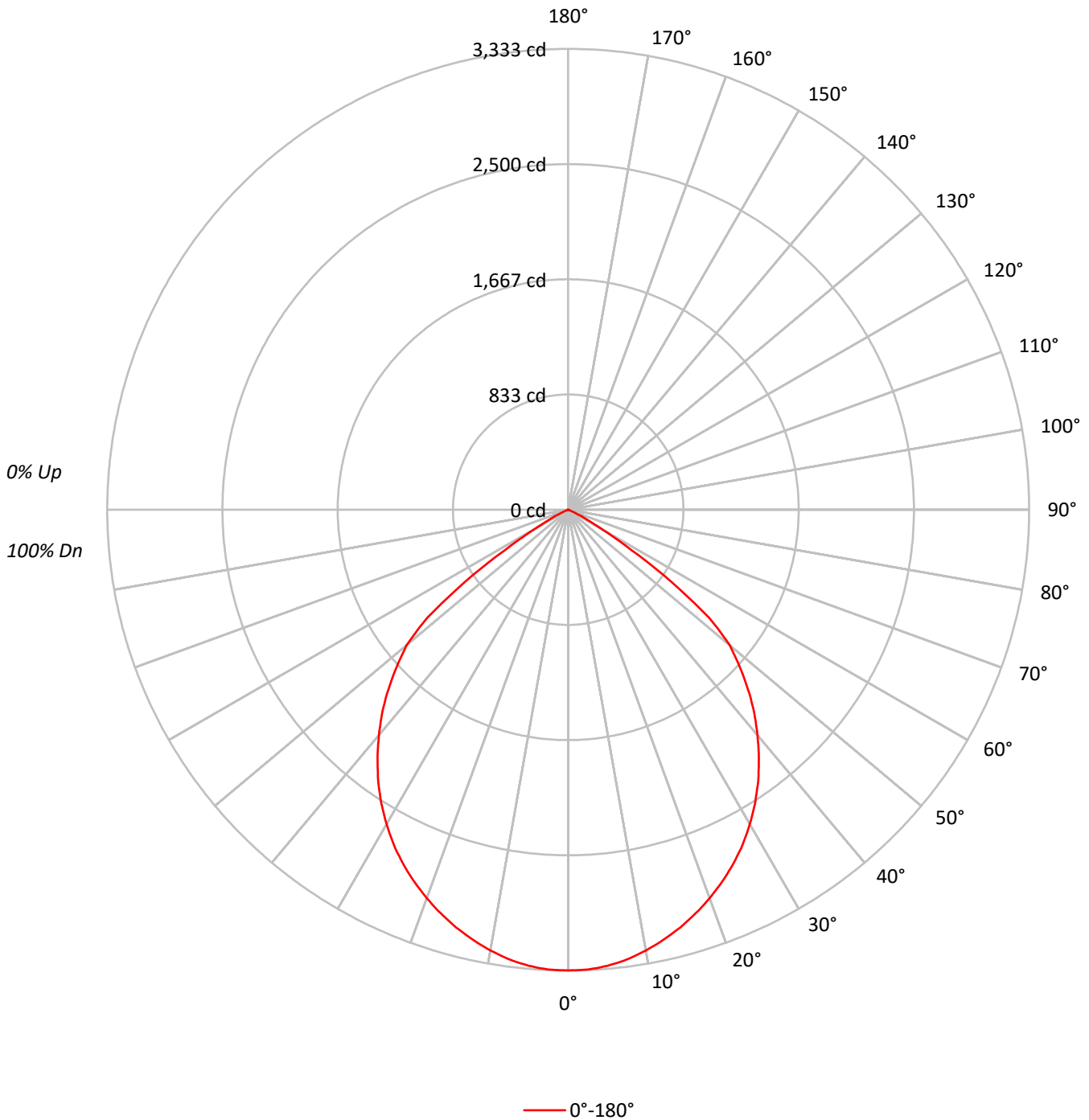
Lumens per Lamp: N/A
Luminaire Lumens: 6303.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: P867036

CATALOG NUMBER: PRLX-2002-L-930-83L-L-X-X-BLAK-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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16442
5°	16396
10°	16220
15°	15978
20°	15700
25°	15379
30°	14962
35°	14423
40°	13706
45°	12834
50°	11698
55°	7822
60°	2779
65°	642
70°	102
75°	109
80°	142
85°	164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12834 cd/sqm

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CATALOG NUMBER: PRLX-2002-L-930-83L-L-X-X-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	5.0
10°-20°	881.6	14.0
20°-30°	1300.0	20.6
30°-40°	1493.9	23.7
40°-50°	1414.3	22.4
50°-60°	805.3	12.8
60°-70°	85.3	1.4
70°-80°	6.1	0.1
80°-90°	2.8	0.0
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°	2495.3	39.6
0°-40°	3989.2	63.3
0°-60°	6208.8	98.5
0°-90°	6303.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6303.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3333	
5°	3310	314
15°	3128	882
25°	2825	1300
35°	2395	1494
45°	1839	1414
55°	909	805
65°	55	85
75°	6	6
85°	3	3
90°	0	

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CATALOG NUMBER: PRLX-2002-L-930-83L-L-X-X-BLAK-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3332.6
2.5°	3329.0
5°	3310.5
7.5°	3279.7
10°	3237.5
12.5°	3186.1
15°	3128.2
17.5°	3062.4
20°	2990.2
22.5°	2911.6
25°	2825.1
27.5°	2732.1
30°	2626.3
32.5°	2514.8
35°	2394.7
37.5°	2264.6
40°	2128.1
42.5°	1990.1
45°	1839.3
47.5°	1682.7
50°	1524.1
52.5°	1286.7
55°	909.3
57.5°	542.6
60°	281.6
62.5°	140.8
65°	55.0
67.5°	10.7
70°	7.1
72.5°	6.4
75°	5.7
77.5°	5.0
80°	5.0
82.5°	3.6
85°	2.9
87.5°	1.4
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	15.62	16.99	15.99	17.30	17.61	15.62	16.99	15.99	17.30	17.61
	3H	15.50	16.69	15.88	17.02	17.39	15.50	16.69	15.88	17.02	17.39
	4H	15.43	16.54	15.83	16.89	17.27	15.43	16.54	15.83	16.89	17.27
	6H	15.35	16.37	15.77	16.74	17.13	15.35	16.37	15.77	16.74	17.13
	8H	15.31	16.27	15.74	16.66	17.07	15.31	16.27	15.74	16.66	17.07
	12H	15.27	16.19	15.70	16.57	17.00	15.27	16.19	15.70	16.57	17.00
4H	2H	15.45	16.56	15.85	16.91	17.29	15.45	16.56	15.85	16.91	17.29
	3H	15.33	16.22	15.74	16.62	17.02	15.33	16.22	15.74	16.62	17.02
	4H	15.24	16.03	15.68	16.45	16.89	15.24	16.03	15.68	16.45	16.89
	6H	15.16	15.84	15.63	16.29	16.75	15.16	15.84	15.63	16.29	16.75
	8H	15.11	15.74	15.58	16.19	16.66	15.11	15.74	15.58	16.19	16.66
	12H	15.06	15.62	15.55	16.10	16.58	15.06	15.62	15.55	16.10	16.58
8H	4H	15.10	15.74	15.57	16.18	16.66	15.10	15.74	15.57	16.18	16.66
	6H	15.00	15.52	15.50	16.02	16.50	15.00	15.52	15.50	16.02	16.50
	8H	14.93	15.41	15.45	15.92	16.41	14.93	15.41	15.45	15.92	16.41
	12H	14.88	15.31	15.40	15.80	16.37	14.88	15.31	15.40	15.80	16.37
12H	4H	15.05	15.62	15.54	16.10	16.57	15.05	15.62	15.54	16.10	16.57
	6H	14.93	15.40	15.45	15.92	16.41	14.93	15.40	15.45	15.92	16.41
	8H	14.88	15.31	15.39	15.80	16.37	14.88	15.31	15.39	15.80	16.37