

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: P866800

Luminaire Tested: PRLX-2001-L-935-117L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-117L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

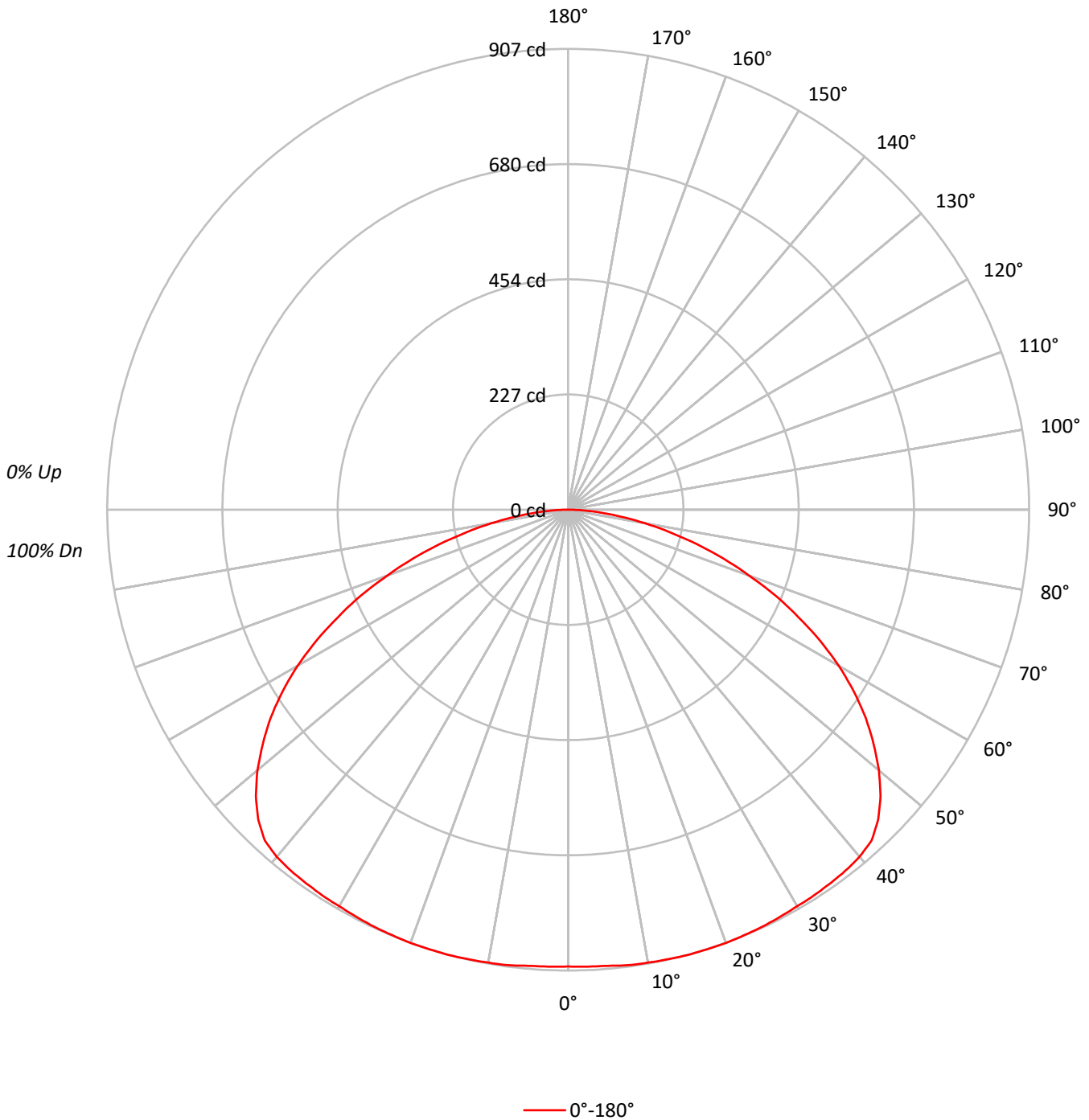
Lumens per Lamp: N/A
Luminaire Lumens: 3468.3 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: P866800

CATALOG NUMBER: PRLX-2001-L-935-117L-G-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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4915
5°	4945
10°	5025
15°	5136
20°	5279
25°	5461
30°	5688
35°	5993
40°	6364
45°	6669
50°	6788
55°	6814
60°	6724
65°	6461
70°	6055
75°	5517
80°	4817
85°	3789

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 6814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	2.5
10°-20°	257.1	7.4
20°-30°	418.7	12.1
30°-40°	563.8	16.3
40°-50°	662.0	19.1
50°-60°	636.8	18.4
60°-70°	493.9	14.2
70°-80°	277.2	8.0
80°-90°	72.6	2.1
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°	762.0	22.0
0°-40°	1325.8	38.2
0°-60°	2624.5	75.7
0°-90°	3468.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3468.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	899	
5°	901	86
15°	907	257
25°	905	419
35°	898	564
45°	863	662
55°	715	637
65°	500	494
75°	261	277
85°	60	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	899.0
2.5°	900.1
5°	901.1
7.5°	904.2
10°	905.3
12.5°	906.3
15°	907.4
17.5°	907.4
20°	907.4
22.5°	906.3
25°	905.3
27.5°	903.2
30°	901.1
32.5°	900.1
35°	898.0
37.5°	895.9
40°	891.8
42.5°	883.4
45°	862.6
47.5°	833.5
50°	798.1
52.5°	757.5
55°	714.9
57.5°	667.0
60°	615.0
62.5°	558.8
65°	499.5
67.5°	441.2
70°	378.8
72.5°	320.5
75°	261.2
77.5°	203.9
80°	153.0
82.5°	104.1
85°	60.4
87.5°	26.0
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	19.25	20.97	19.61	21.28	21.60	19.25	20.97	19.61	21.28	21.60
	3H	21.07	22.63	21.45	22.96	23.32	21.07	22.63	21.45	22.96	23.32
	4H	21.73	23.20	22.13	23.55	23.92	21.73	23.20	22.13	23.55	23.92
	6H	22.19	23.56	22.60	23.92	24.31	22.19	23.56	22.60	23.92	24.31
	8H	22.33	23.64	22.76	24.03	24.43	22.33	23.64	22.76	24.03	24.43
	12H	22.42	23.68	22.85	24.06	24.49	22.42	23.68	22.85	24.06	24.49
4H	2H	19.91	21.38	20.30	21.73	22.10	19.91	21.38	20.30	21.73	22.10
	3H	21.94	23.18	22.35	23.58	23.98	21.94	23.18	22.35	23.58	23.98
	4H	22.72	23.85	23.15	24.26	24.69	22.72	23.85	23.15	24.26	24.69
	6H	23.31	24.29	23.76	24.73	25.18	23.31	24.29	23.76	24.73	25.18
	8H	23.49	24.42	23.95	24.86	25.32	23.49	24.42	23.95	24.86	25.32
	12H	23.62	24.45	24.10	24.93	25.40	23.62	24.45	24.10	24.93	25.40
8H	4H	23.03	23.96	23.49	24.40	24.86	23.03	23.96	23.49	24.40	24.86
	6H	23.73	24.50	24.22	24.99	25.46	23.73	24.50	24.22	24.99	25.46
	8H	23.99	24.68	24.49	25.18	25.66	23.99	24.68	24.49	25.18	25.66
	12H	24.18	24.79	24.68	25.28	25.83	24.18	24.79	24.68	25.28	25.83
12H	4H	23.07	23.90	23.55	24.38	24.84	23.07	23.90	23.55	24.38	24.84
	6H	23.79	24.48	24.29	24.98	25.47	23.79	24.48	24.29	24.98	25.47
	8H	24.09	24.70	24.60	25.19	25.75	24.09	24.70	24.60	25.19	25.75