

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: P866064

Luminaire Tested: PRLX-2001-M-935-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-55L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

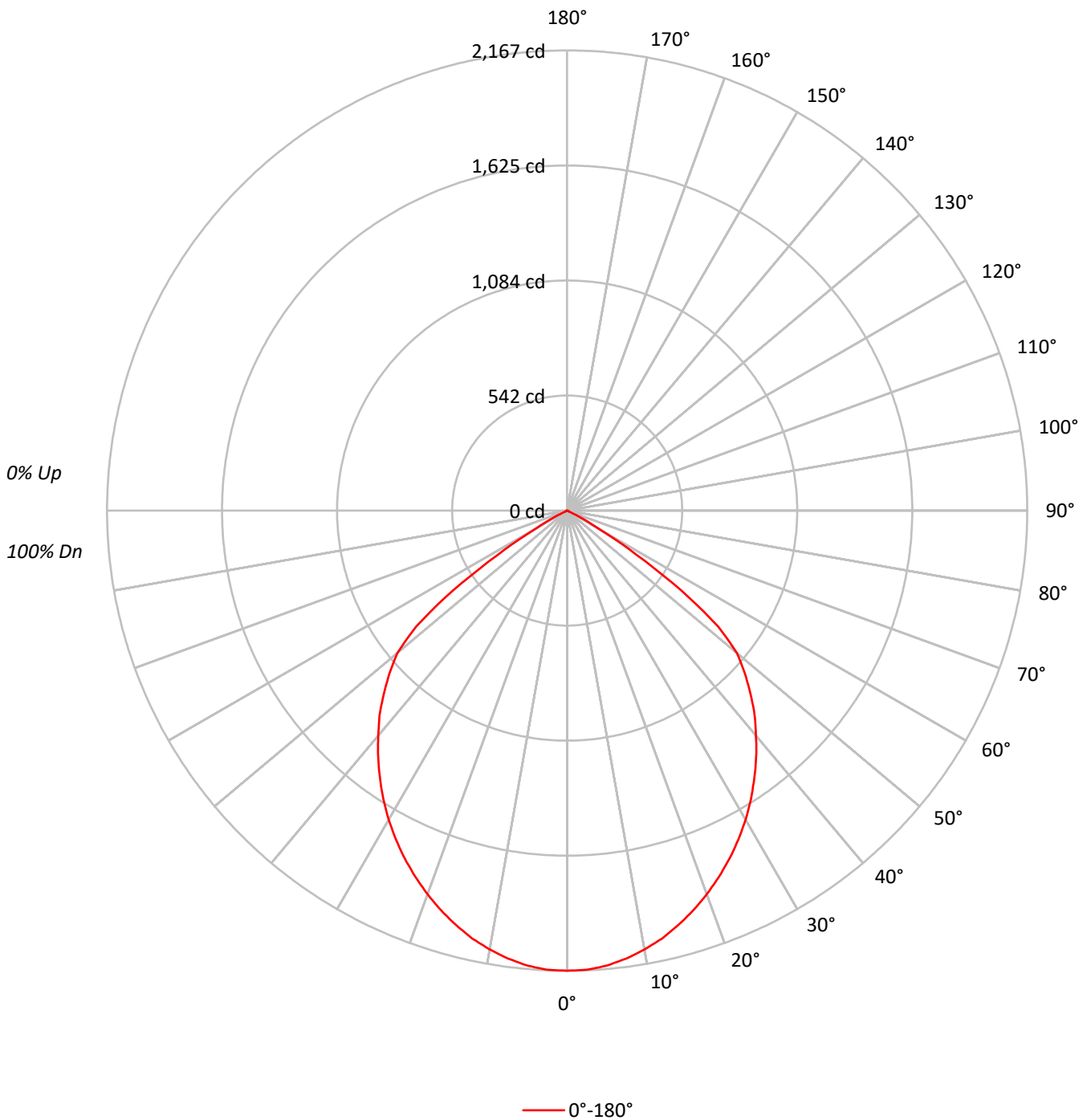
Lumens per Lamp: N/A
Luminaire Lumens: 4122.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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

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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	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86		90	86	84		87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66		74	69	65		72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59		68	62	58		66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18389
5°	18320
10°	18082
15°	17753
20°	17360
25°	16937
30°	16467
35°	15925
40°	15326
45°	14651
50°	13772
55°	9716
60°	3065
65°	209
70°	149
75°	148
80°	147
85°	146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	4.9
10°-20°	569.3	13.8
20°-30°	832.6	20.2
30°-40°	961.0	23.3
40°-50°	940.4	22.8
50°-60°	564.2	13.7
60°-70°	44.0	1.1
70°-80°	5.1	0.1
80°-90°	2.0	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°	1605.5	38.9
0°-40°	2566.5	62.3
0°-60°	4071.1	98.8
0°-90°	4122.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2167	
5°	2151	204
15°	2021	569
25°	1809	833
35°	1537	961
45°	1221	940
55°	657	564
65°	10	44
75°	4	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2167.0
2.5°	2164.1
5°	2150.6
7.5°	2128.2
10°	2098.4
12.5°	2064.1
15°	2020.8
17.5°	1974.5
20°	1922.3
22.5°	1867.1
25°	1808.9
27.5°	1746.2
30°	1680.5
32.5°	1610.4
35°	1537.2
37.5°	1462.6
40°	1383.5
42.5°	1307.4
45°	1220.8
47.5°	1134.3
50°	1043.2
52.5°	895.5
55°	656.7
57.5°	386.5
60°	180.6
62.5°	71.6
65°	10.4
67.5°	6.0
70°	6.0
72.5°	6.0
75°	4.5
77.5°	4.5
80°	3.0
82.5°	3.0
85°	1.5
87.5°	1.5
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	16.58	17.96	16.95	18.27	18.58	16.58	17.96	16.95	18.27	18.58
	3H	16.46	17.66	16.84	17.99	18.36	16.46	17.66	16.84	17.99	18.36
	4H	16.39	17.51	16.79	17.86	18.24	16.39	17.51	16.79	17.86	18.24
	6H	16.32	17.34	16.73	17.71	18.10	16.32	17.34	16.73	17.71	18.10
	8H	16.28	17.25	16.71	17.64	18.04	16.28	17.25	16.71	17.64	18.04
	12H	16.24	17.16	16.67	17.54	17.97	16.24	17.16	16.67	17.54	17.97
4H	2H	16.39	17.51	16.79	17.86	18.24	16.39	17.51	16.79	17.86	18.24
	3H	16.27	17.17	16.69	17.57	17.97	16.27	17.17	16.69	17.57	17.97
	4H	16.19	16.98	16.62	17.40	17.85	16.19	16.98	16.62	17.40	17.85
	6H	16.11	16.79	16.57	17.24	17.71	16.11	16.79	16.57	17.24	17.71
	8H	16.05	16.69	16.52	17.14	17.61	16.05	16.69	16.52	17.14	17.61
	12H	16.01	16.57	16.49	17.06	17.53	16.01	16.57	16.49	17.06	17.53
8H	4H	16.05	16.69	16.52	17.14	17.61	16.05	16.69	16.52	17.14	17.61
	6H	15.95	16.47	16.45	16.97	17.45	15.95	16.47	16.45	16.97	17.45
	8H	15.88	16.36	16.40	16.87	17.37	15.88	16.36	16.40	16.87	17.37
	12H	15.83	16.26	16.34	16.76	17.33	15.83	16.26	16.34	16.76	17.33
12H	4H	16.00	16.57	16.49	17.05	17.53	16.00	16.57	16.49	17.05	17.53
	6H	15.88	16.36	16.40	16.87	17.36	15.88	16.36	16.40	16.87	17.36
	8H	15.83	16.26	16.34	16.75	17.32	15.83	16.26	16.34	16.75	17.32