

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: P865936

Luminaire Tested: PRLX-2001-M-927-55L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865936
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-927-55L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

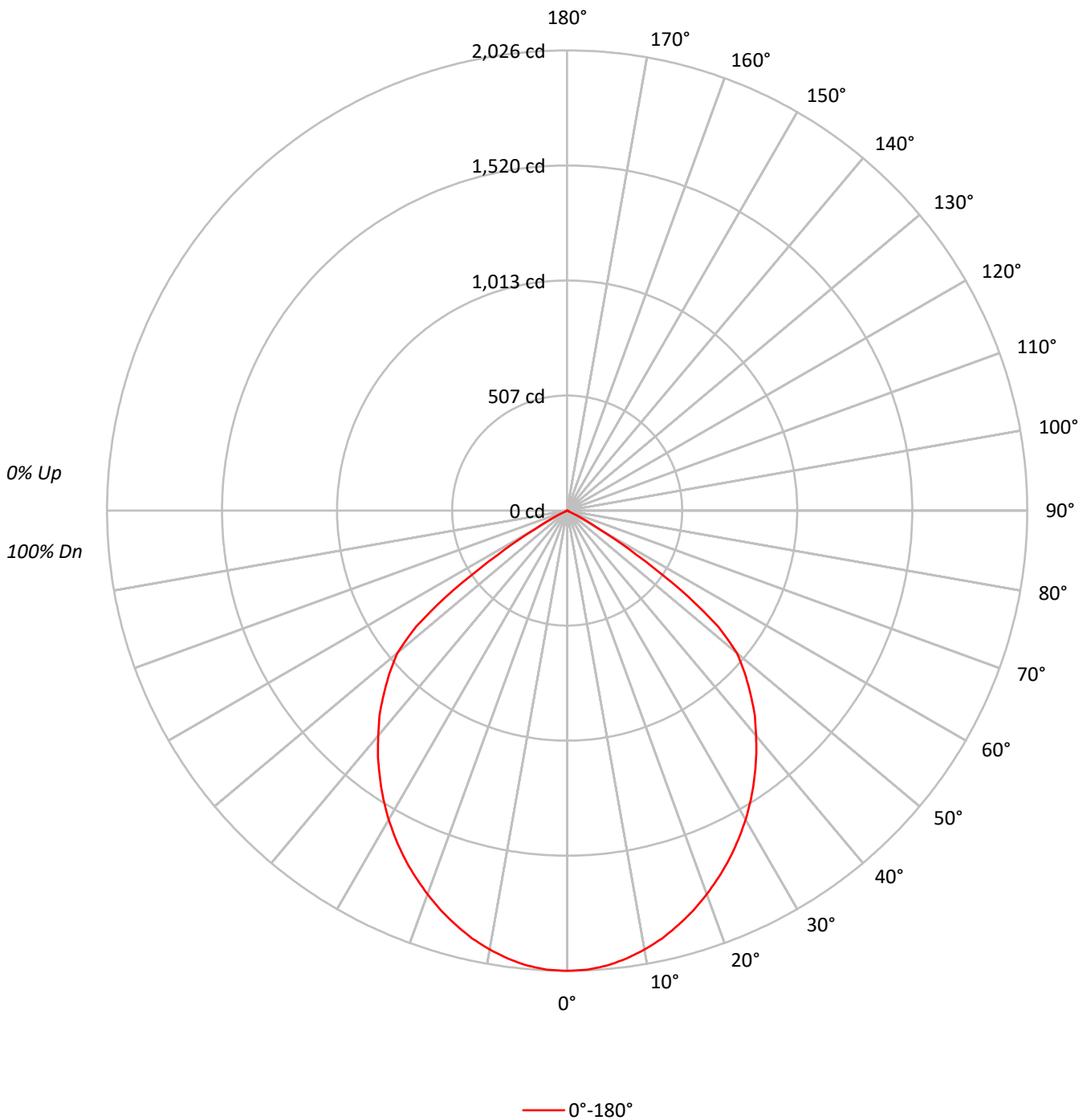
Lumens per Lamp: N/A
Luminaire Lumens: 3854.5 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	17195
5°	17130
10°	16907
15°	16600
20°	16232
25°	15837
30°	15397
35°	14891
40°	14330
45°	13699
50°	12878
55°	9084
60°	2867
65°	197
70°	139
75°	138
80°	137
85°	136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13699 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	4.9
10°-20°	532.3	13.8
20°-30°	778.5	20.2
30°-40°	898.6	23.3
40°-50°	879.3	22.8
50°-60°	527.5	13.7
60°-70°	41.2	1.1
70°-80°	4.8	0.1
80°-90°	1.9	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°	1501.2	38.9
0°-40°	2399.8	62.3
0°-60°	3806.6	98.8
0°-90°	3854.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3854.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2026	
5°	2011	190
15°	1890	532
25°	1691	779
35°	1437	899
45°	1142	879
55°	614	528
65°	10	41
75°	4	5
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2026.3
2.5°	2023.5
5°	2010.9
7.5°	1990.0
10°	1962.1
12.5°	1930.0
15°	1889.5
17.5°	1846.3
20°	1797.4
22.5°	1745.8
25°	1691.4
27.5°	1632.7
30°	1571.3
32.5°	1505.8
35°	1437.4
37.5°	1367.6
40°	1293.6
42.5°	1222.5
45°	1141.5
47.5°	1060.6
50°	975.5
52.5°	837.3
55°	614.0
57.5°	361.4
60°	168.9
62.5°	67.0
65°	9.8
67.5°	5.6
70°	5.6
72.5°	5.6
75°	4.2
77.5°	4.2
80°	2.8
82.5°	2.8
85°	1.4
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	16.35	17.72	16.71	18.04	18.35	16.35	17.72	16.71	18.04	18.35
	3H	16.23	17.43	16.61	17.76	18.13	16.23	17.43	16.61	17.76	18.13
	4H	16.16	17.28	16.56	17.63	18.01	16.16	17.28	16.56	17.63	18.01
	6H	16.08	17.11	16.50	17.48	17.87	16.08	17.11	16.50	17.48	17.87
	8H	16.04	17.01	16.47	17.40	17.81	16.04	17.01	16.47	17.40	17.81
	12H	16.00	16.93	16.44	17.31	17.74	16.00	16.93	16.44	17.31	17.74
4H	2H	16.16	17.28	16.56	17.63	18.01	16.16	17.28	16.56	17.63	18.01
	3H	16.04	16.93	16.45	17.34	17.74	16.04	16.93	16.45	17.34	17.74
	4H	15.96	16.75	16.39	17.17	17.61	15.96	16.75	16.39	17.17	17.61
	6H	15.88	16.56	16.34	17.01	17.47	15.88	16.56	16.34	17.01	17.47
	8H	15.82	16.46	16.29	16.91	17.38	15.82	16.46	16.29	16.91	17.38
	12H	15.77	16.34	16.26	16.82	17.30	15.77	16.34	16.26	16.82	17.30
8H	4H	15.82	16.46	16.29	16.90	17.38	15.82	16.46	16.29	16.90	17.38
	6H	15.71	16.24	16.21	16.74	17.22	15.71	16.24	16.21	16.74	17.22
	8H	15.65	16.13	16.17	16.64	17.13	15.65	16.13	16.17	16.64	17.13
	12H	15.59	16.03	16.11	16.52	17.09	15.59	16.03	16.11	16.52	17.09
12H	4H	15.77	16.34	16.26	16.82	17.29	15.77	16.34	16.26	16.82	17.29
	6H	15.64	16.12	16.17	16.64	17.13	15.64	16.12	16.17	16.64	17.13
	8H	15.59	16.03	16.11	16.52	17.09	15.59	16.03	16.11	16.52	17.09