

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: P865908

Luminaire Tested: PRLX-2001-M-927-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

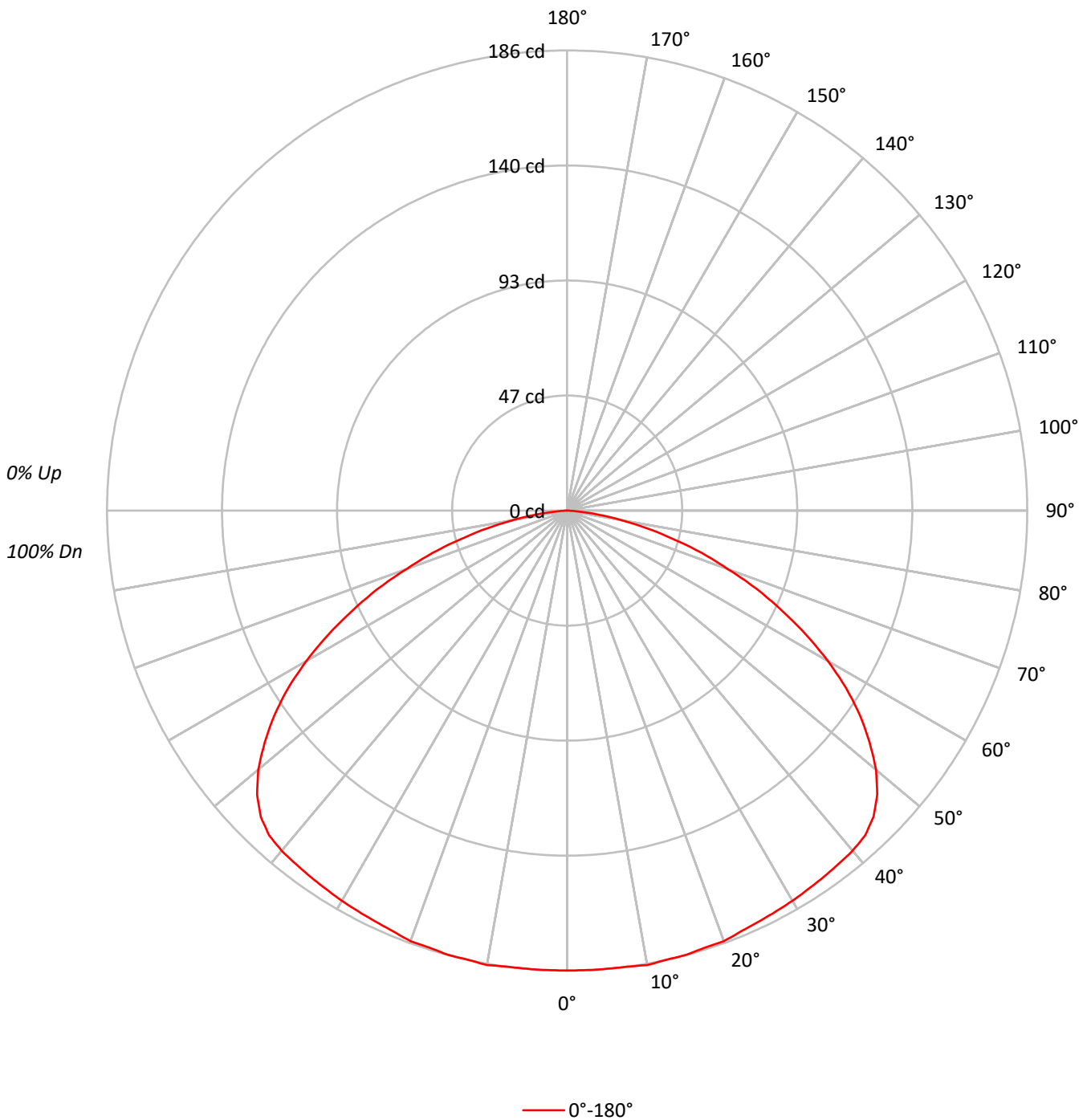
Lumens per Lamp: N/A
Luminaire Lumens: 682.5 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1578
5°	1584
10°	1607
15°	1633
20°	1672
25°	1716
30°	1784
35°	1873
40°	1988
45°	2101
50°	2152
55°	2139
60°	2067
65°	1924
70°	1714
75°	1456
80°	1085
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	2.6
10°-20°	52.6	7.7
20°-30°	84.9	12.4
30°-40°	113.5	16.6
40°-50°	134.3	19.7
50°-60°	128.6	18.8
60°-70°	94.8	13.9
70°-80°	47.5	7.0
80°-90°	8.5	1.3
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°	155.2	22.7
0°-40°	268.8	39.4
0°-60°	531.7	77.9
0°-90°	682.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	186	
5°	186	18
15°	186	53
25°	183	85
35°	181	114
45°	175	134
55°	145	129
65°	96	95
75°	44	47
85°	6	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	185.9
2.5°	185.9
5°	185.9
7.5°	185.9
10°	186.5
12.5°	185.9
15°	185.9
17.5°	185.2
20°	185.2
22.5°	184.0
25°	183.3
27.5°	182.7
30°	182.1
32.5°	181.4
35°	180.8
37.5°	180.1
40°	179.5
42.5°	178.2
45°	175.1
47.5°	170.0
50°	163.0
52.5°	154.1
55°	144.6
57.5°	133.8
60°	121.8
62.5°	109.1
65°	95.8
67.5°	83.1
70°	69.1
72.5°	57.1
75°	44.4
77.5°	33.0
80°	22.2
82.5°	13.3
85°	5.7
87.5°	1.3
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	15.28	16.98	15.64	17.29	17.61	15.28	16.98	15.64	17.29	17.61
	3H	16.89	18.43	17.27	18.76	19.12	16.89	18.43	17.27	18.76	19.12
	4H	17.41	18.86	17.81	19.21	19.59	17.41	18.86	17.81	19.21	19.59
	6H	17.72	19.06	18.13	19.42	19.81	17.72	19.06	18.13	19.42	19.81
	8H	17.78	19.06	18.20	19.45	19.85	17.78	19.06	18.20	19.45	19.85
	12H	17.79	19.02	18.22	19.41	19.83	17.79	19.02	18.22	19.41	19.83
4H	2H	15.88	17.33	16.28	17.68	18.05	15.88	17.33	16.28	17.68	18.05
	3H	17.69	18.91	18.10	19.30	19.70	17.69	18.91	18.10	19.30	19.70
	4H	18.32	19.41	18.75	19.83	20.26	18.32	19.41	18.75	19.83	20.26
	6H	18.71	19.67	19.17	20.11	20.56	18.71	19.67	19.17	20.11	20.56
	8H	18.80	19.69	19.26	20.14	20.60	18.80	19.69	19.26	20.14	20.60
	12H	18.84	19.64	19.31	20.12	20.58	18.84	19.64	19.31	20.12	20.58
8H	4H	18.56	19.45	19.02	19.89	20.36	18.56	19.45	19.02	19.89	20.36
	6H	19.02	19.77	19.52	20.25	20.73	19.02	19.77	19.52	20.25	20.73
	8H	19.14	19.81	19.65	20.32	20.80	19.14	19.81	19.65	20.32	20.80
	12H	19.21	19.80	19.71	20.29	20.84	19.21	19.80	19.71	20.29	20.84
12H	4H	18.57	19.38	19.05	19.85	20.32	18.57	19.38	19.05	19.85	20.32
	6H	19.04	19.71	19.55	20.21	20.70	19.04	19.71	19.55	20.21	20.70
	8H	19.20	19.79	19.70	20.28	20.84	19.20	19.79	19.70	20.28	20.84