

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: P865978

Luminaire Tested: PRLX-2001-M-930-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

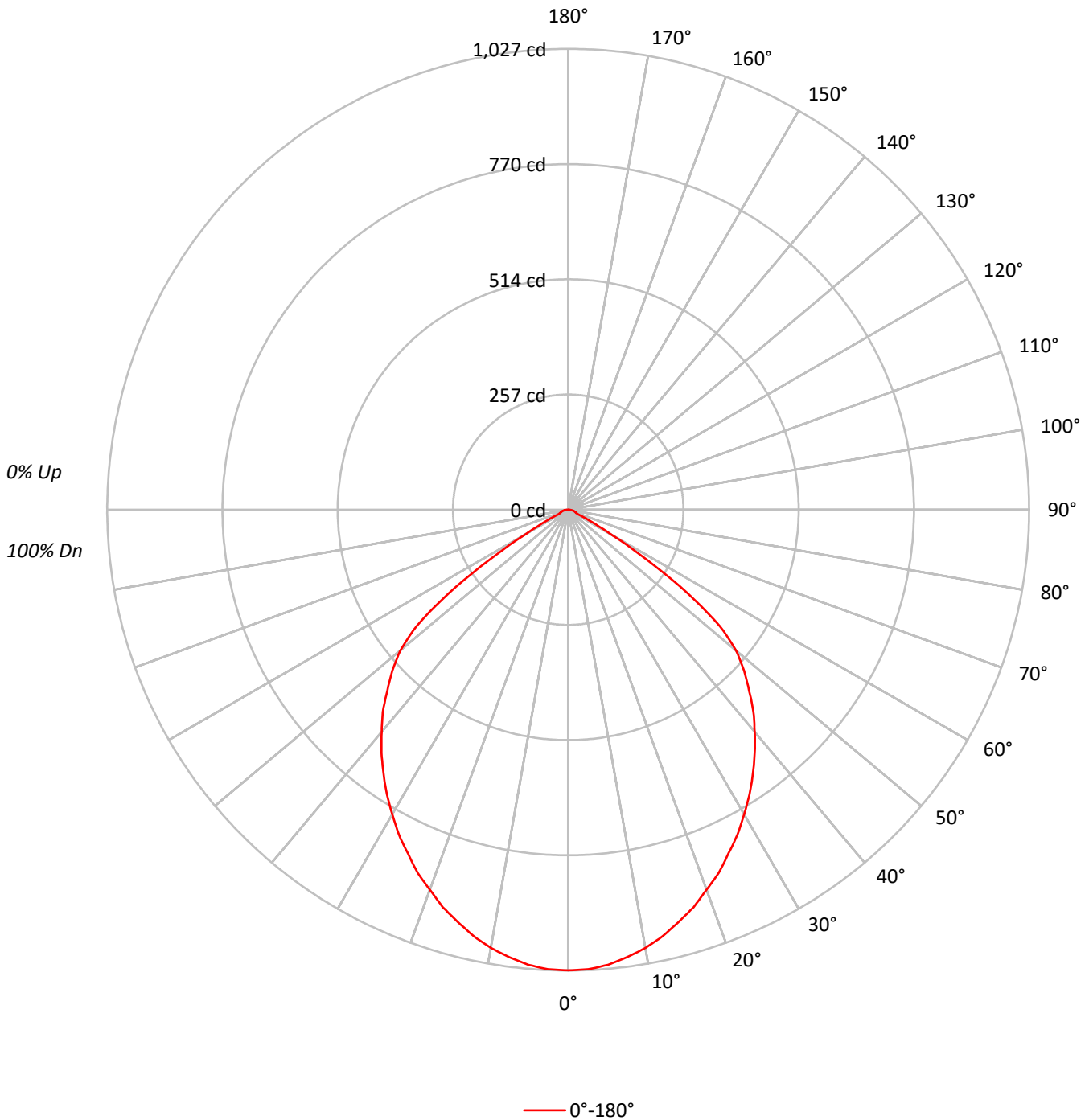
Lumens per Lamp: N/A
Luminaire Lumens: 1983.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8712
5°	8672
10°	8543
15°	8353
20°	8137
25°	7913
30°	7681
35°	7432
40°	7160
45°	6838
50°	6452
55°	4831
60°	1908
65°	520
70°	447
75°	479
80°	518
85°	516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	4.9
10°-20°	267.9	13.5
20°-30°	389.6	19.6
30°-40°	448.6	22.6
40°-50°	439.7	22.2
50°-60°	279.3	14.1
60°-70°	40.7	2.1
70°-80°	15.3	0.8
80°-90°	5.8	0.3
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°	753.8	38.0
0°-40°	1202.5	60.6
0°-60°	1921.5	96.9
0°-90°	1983.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1027	
5°	1018	96
15°	951	268
25°	845	390
35°	717	449
45°	570	440
55°	326	279
65°	26	41
75°	15	15
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1026.6
2.5°	1025.3
5°	1018.0
7.5°	1006.0
10°	991.4
12.5°	973.4
15°	950.8
17.5°	928.9
20°	901.0
22.5°	876.4
25°	845.1
27.5°	816.5
30°	783.9
32.5°	752.0
35°	717.4
37.5°	682.9
40°	646.3
42.5°	611.1
45°	569.8
47.5°	531.3
50°	488.7
52.5°	425.5
55°	326.5
57.5°	208.1
60°	112.4
62.5°	56.5
65°	25.9
67.5°	18.6
70°	18.0
72.5°	16.6
75°	14.6
77.5°	12.6
80°	10.6
82.5°	8.0
85°	5.3
87.5°	2.7
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	14.83	16.23	15.19	16.54	16.86	14.83	16.23	15.19	16.54	16.86
	3H	14.76	15.99	15.14	16.32	16.69	14.76	15.99	15.14	16.32	16.69
	4H	14.73	15.88	15.14	16.23	16.61	14.73	15.88	15.14	16.23	16.61
	6H	14.71	15.76	15.13	16.13	16.53	14.71	15.76	15.13	16.13	16.53
	8H	14.70	15.69	15.13	16.08	16.49	14.70	15.69	15.13	16.08	16.49
	12H	14.68	15.63	15.11	16.01	16.44	14.68	15.63	15.11	16.01	16.44
4H	2H	14.67	15.81	15.07	16.16	16.55	14.67	15.81	15.07	16.16	16.55
	3H	14.63	15.55	15.04	15.96	16.36	14.63	15.55	15.04	15.96	16.36
	4H	14.62	15.44	15.05	15.86	16.30	14.62	15.44	15.05	15.86	16.30
	6H	14.63	15.34	15.09	15.78	16.25	14.63	15.34	15.09	15.78	16.25
	8H	14.62	15.28	15.09	15.73	16.20	14.62	15.28	15.09	15.73	16.20
	12H	14.61	15.20	15.10	15.68	16.15	14.61	15.20	15.10	15.68	16.15
8H	4H	14.53	15.19	14.99	15.63	16.10	14.53	15.19	14.99	15.63	16.10
	6H	14.54	15.09	15.05	15.59	16.07	14.54	15.09	15.05	15.59	16.07
	8H	14.55	15.04	15.07	15.56	16.05	14.55	15.04	15.07	15.56	16.05
	12H	14.56	15.01	15.07	15.50	16.07	14.56	15.01	15.07	15.50	16.07
12H	4H	14.49	15.08	14.97	15.56	16.03	14.49	15.08	14.97	15.56	16.03
	6H	14.50	15.00	15.02	15.51	16.00	14.50	15.00	15.02	15.51	16.00
	8H	14.53	14.97	15.04	15.47	16.04	14.53	14.97	15.04	15.47	16.04