

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: P866766

Luminaire Tested: PRLX-2001-L-930-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-930-48L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

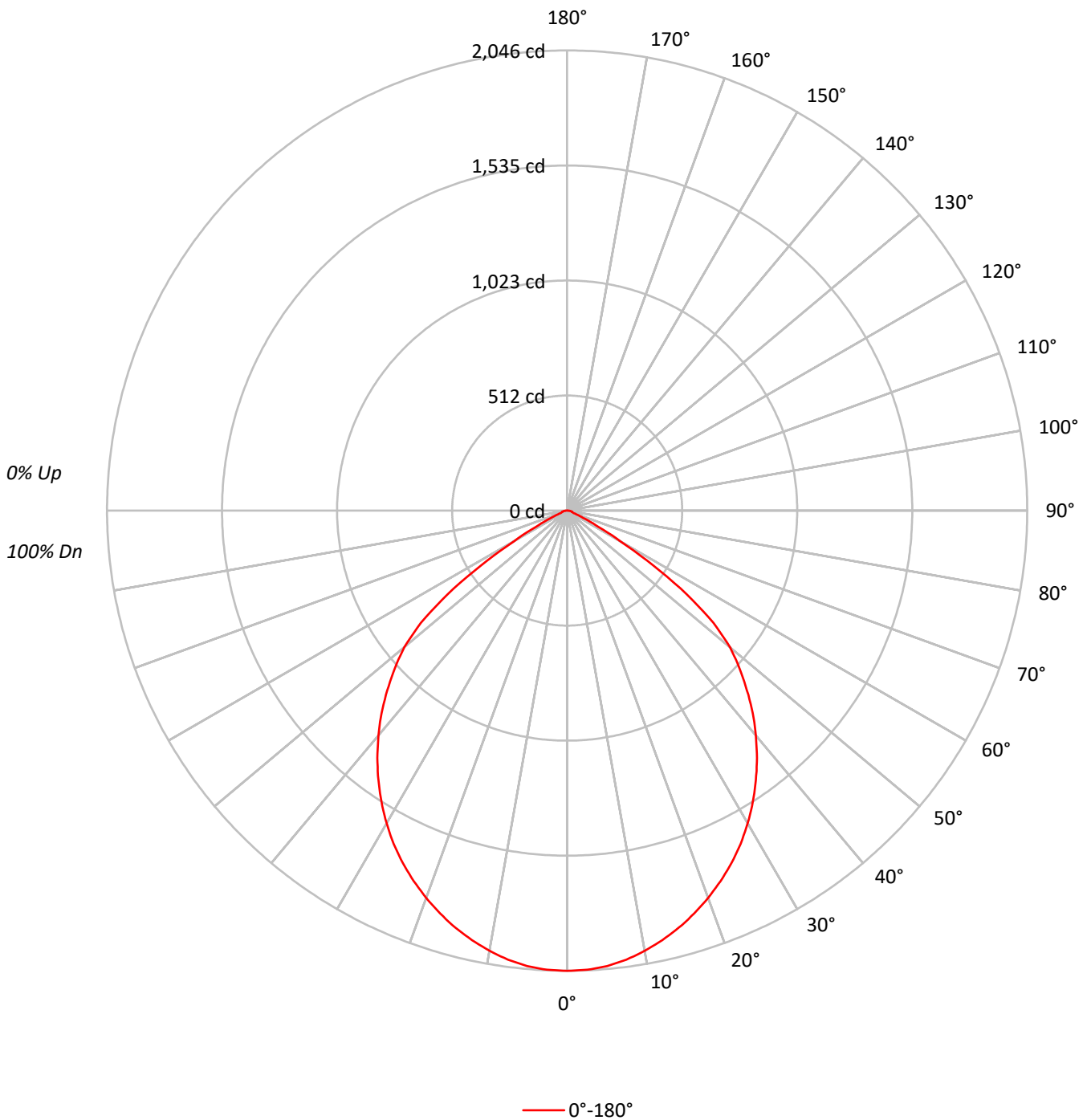
Lumens per Lamp: N/A
Luminaire Lumens: 4019.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): 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	84		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	69
4	89	79	72	66	87	78	71	66	75	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	54
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	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11187
5°	11155
10°	11034
15°	10866
20°	10663
25°	10431
30°	10137
35°	9764
40°	9310
45°	8743
50°	8033
55°	6203
60°	2999
65°	1132
70°	446
75°	490
80°	557
85°	634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	4.8
10°-20°	540.9	13.5
20°-30°	795.6	19.8
30°-40°	913.7	22.7
40°-50°	871.0	21.7
50°-60°	562.3	14.0
60°-70°	108.0	2.7
70°-80°	24.3	0.6
80°-90°	10.5	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°	1529.1	38.0
0°-40°	2442.9	60.8
0°-60°	3876.2	96.4
0°-90°	4019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2046	
5°	2033	193
15°	1920	541
25°	1729	796
35°	1463	914
45°	1131	871
55°	651	562
65°	88	108
75°	23	24
85°	10	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2046.3
2.5°	2043.8
5°	2032.8
7.5°	2014.2
10°	1987.6
12.5°	1955.9
15°	1919.9
17.5°	1878.5
20°	1832.9
22.5°	1782.6
25°	1729.3
27.5°	1670.6
30°	1605.9
32.5°	1536.6
35°	1463.1
37.5°	1386.6
40°	1304.6
42.5°	1222.2
45°	1130.9
47.5°	1040.9
50°	944.5
52.5°	819.9
55°	650.8
57.5°	453.5
60°	274.3
62.5°	157.2
65°	87.5
67.5°	45.6
70°	27.9
72.5°	25.4
75°	23.2
77.5°	20.7
80°	17.7
82.5°	14.4
85°	10.1
87.5°	5.1
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	16.29	17.70	16.66	18.01	18.32	16.29	17.70	16.66	18.01	18.32
	3H	16.22	17.45	16.60	17.78	18.15	16.22	17.45	16.60	17.78	18.15
	4H	16.17	17.32	16.57	17.67	18.05	16.17	17.32	16.57	17.67	18.05
	6H	16.13	17.18	16.54	17.55	17.94	16.13	17.18	16.54	17.55	17.94
	8H	16.10	17.10	16.53	17.49	17.89	16.10	17.10	16.53	17.49	17.89
	12H	16.08	17.03	16.51	17.41	17.84	16.08	17.03	16.51	17.41	17.84
4H	2H	16.17	17.32	16.58	17.67	18.05	16.17	17.32	16.58	17.67	18.05
	3H	16.12	17.04	16.53	17.44	17.85	16.12	17.04	16.53	17.44	17.85
	4H	16.07	16.89	16.50	17.31	17.75	16.07	16.89	16.50	17.31	17.75
	6H	16.04	16.75	16.50	17.20	17.66	16.04	16.75	16.50	17.20	17.66
	8H	16.02	16.68	16.48	17.13	17.60	16.02	16.68	16.48	17.13	17.60
	12H	16.00	16.59	16.48	17.07	17.54	16.00	16.59	16.48	17.07	17.54
8H	4H	15.96	16.62	16.43	17.07	17.54	15.96	16.62	16.43	17.07	17.54
	6H	15.93	16.47	16.43	16.97	17.45	15.93	16.47	16.43	16.97	17.45
	8H	15.91	16.40	16.43	16.92	17.41	15.91	16.40	16.43	16.92	17.41
	12H	15.91	16.35	16.42	16.85	17.41	15.91	16.35	16.42	16.85	17.41
12H	4H	15.92	16.50	16.40	16.99	17.46	15.92	16.50	16.40	16.99	17.46
	6H	15.87	16.37	16.39	16.88	17.37	15.87	16.37	16.39	16.88	17.37
	8H	15.88	16.32	16.39	16.82	17.39	15.88	16.32	16.39	16.82	17.39