

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: P866703

Luminaire Tested: PRLX-2001-L-927-48L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-927-48L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

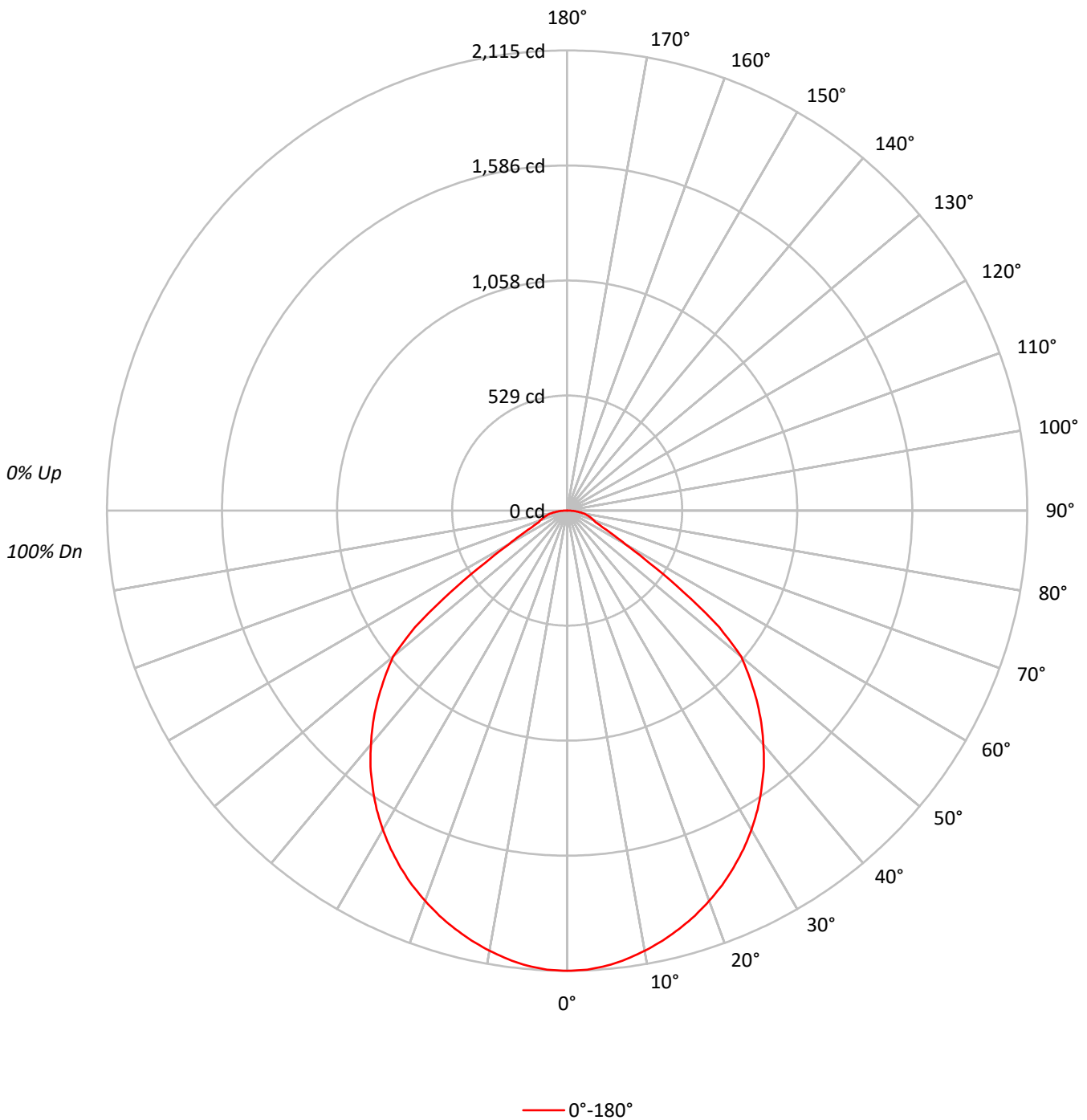
Lumens per Lamp: N/A
Luminaire Lumens: 4447.6 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: 0.333 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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11563
5°	11523
10°	11404
15°	11265
20°	11105
25°	10922
30°	10692
35°	10396
40°	10015
45°	9518
50°	8882
55°	6238
60°	3377
65°	2299
70°	2089
75°	2220
80°	2386
85°	2553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9518 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	4.5
10°-20°	561.2	12.6
20°-30°	833.6	18.7
30°-40°	973.4	21.9
40°-50°	947.4	21.3
50°-60°	589.5	13.3
60°-70°	190.0	4.3
70°-80°	110.2	2.5
80°-90°	43.1	1.0
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°	1593.9	35.8
0°-40°	2567.2	57.7
0°-60°	4104.2	92.3
0°-90°	4447.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2115	
5°	2100	199
15°	1990	561
25°	1811	834
35°	1558	973
45°	1231	947
55°	654	590
65°	178	190
75°	105	110
85°	41	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2115.1
2.5°	2112.7
5°	2099.7
7.5°	2080.0
10°	2054.3
12.5°	2025.0
15°	1990.3
17.5°	1952.4
20°	1908.9
22.5°	1863.1
25°	1810.6
27.5°	1754.5
30°	1693.7
32.5°	1629.3
35°	1557.8
37.5°	1484.7
40°	1403.4
42.5°	1320.8
45°	1231.1
47.5°	1137.5
50°	1044.3
52.5°	881.6
55°	654.5
57.5°	445.9
60°	308.9
62.5°	230.7
65°	177.7
67.5°	142.2
70°	130.7
72.5°	118.1
75°	105.1
77.5°	91.2
80°	75.8
82.5°	59.2
85°	40.7
87.5°	20.5
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	15.81	17.26	16.17	17.57	17.89	15.81	17.26	16.17	17.57	17.89
	3H	16.29	17.58	16.67	17.90	18.27	16.29	17.58	16.67	17.90	18.27
	4H	16.61	17.81	17.01	18.16	18.54	16.61	17.81	17.01	18.16	18.54
	6H	16.96	18.07	17.37	18.43	18.83	16.96	18.07	17.37	18.43	18.83
	8H	17.11	18.16	17.54	18.55	18.96	17.11	18.16	17.54	18.55	18.96
	12H	17.24	18.24	17.67	18.63	19.06	17.24	18.24	17.67	18.63	19.06
4H	2H	15.89	17.09	16.29	17.44	17.82	15.89	17.09	16.29	17.44	17.82
	3H	16.58	17.57	17.00	17.97	18.37	16.58	17.57	17.00	17.97	18.37
	4H	17.05	17.93	17.49	18.35	18.79	17.05	17.93	17.49	18.35	18.79
	6H	17.58	18.34	18.04	18.79	19.25	17.58	18.34	18.04	18.79	19.25
	8H	17.81	18.52	18.28	18.97	19.44	17.81	18.52	18.28	18.97	19.44
	12H	18.01	18.65	18.49	19.13	19.60	18.01	18.65	18.49	19.13	19.60
8H	4H	17.22	17.93	17.69	18.38	18.85	17.22	17.93	17.69	18.38	18.85
	6H	17.89	18.48	18.39	18.97	19.45	17.89	18.48	18.39	18.97	19.45
	8H	18.21	18.75	18.73	19.26	19.75	18.21	18.75	18.73	19.26	19.75
	12H	18.52	19.00	19.03	19.49	20.06	18.52	19.00	19.03	19.49	20.06
12H	4H	17.24	17.87	17.72	18.35	18.83	17.24	17.87	17.72	18.35	18.83
	6H	17.94	18.47	18.45	18.99	19.48	17.94	18.47	18.45	18.99	19.48
	8H	18.33	18.81	18.84	19.30	19.87	18.33	18.81	18.84	19.30	19.87