

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: P866791

Luminaire Tested: PRLX-2001-L-935-100L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866791
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-935-100L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

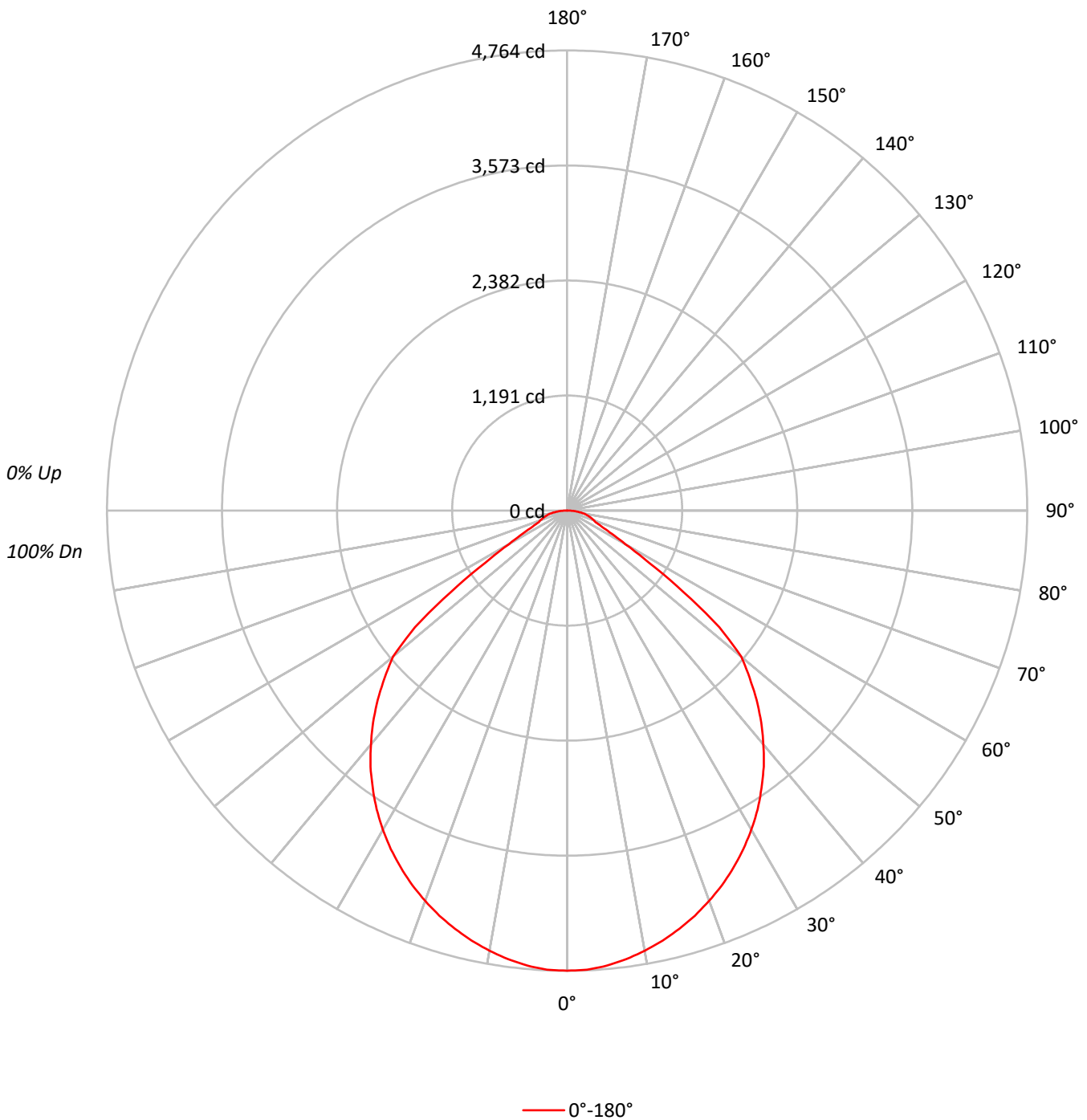
Lumens per Lamp: N/A
Luminaire Lumens: 10017.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	26042
5°	25952
10°	25684
15°	25370
20°	25012
25°	24597
30°	24079
35°	23415
40°	22556
45°	21437
50°	20004
55°	14049
60°	7607
65°	5178
70°	4707
75°	4998
80°	5377
85°	5746

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	4.5
10°-20°	1264.1	12.6
20°-30°	1877.5	18.7
30°-40°	2192.2	21.9
40°-50°	2133.9	21.3
50°-60°	1327.7	13.3
60°-70°	428.0	4.3
70°-80°	248.3	2.5
80°-90°	97.1	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°	3589.7	35.8
0°-40°	5781.9	57.7
0°-60°	9243.5	92.3
0°-90°	10017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10017.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4764	
5°	4729	448
15°	4483	1264
25°	4078	1878
35°	3508	2192
45°	2773	2134
55°	1474	1328
65°	400	428
75°	237	248
85°	92	97
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4763.7
2.5°	4758.4
5°	4729.0
7.5°	4684.5
10°	4626.7
12.5°	4560.9
15°	4482.6
17.5°	4397.2
20°	4299.3
22.5°	4196.1
25°	4077.8
27.5°	3951.5
30°	3814.5
32.5°	3669.5
35°	3508.5
37.5°	3343.9
40°	3160.7
42.5°	2974.8
45°	2772.8
47.5°	2562.0
50°	2352.0
52.5°	1985.5
55°	1474.0
57.5°	1004.3
60°	695.7
62.5°	519.5
65°	400.3
67.5°	320.2
70°	294.5
72.5°	266.0
75°	236.6
77.5°	205.5
80°	170.8
82.5°	133.4
85°	91.6
87.5°	46.3
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	18.63	20.08	18.99	20.39	20.71	18.63	20.08	18.99	20.39	20.71
	3H	19.11	20.40	19.49	20.73	21.09	19.11	20.40	19.49	20.73	21.09
	4H	19.43	20.63	19.83	20.98	21.36	19.43	20.63	19.83	20.98	21.36
	6H	19.78	20.89	20.19	21.25	21.65	19.78	20.89	20.19	21.25	21.65
	8H	19.93	20.99	20.36	21.38	21.78	19.93	20.99	20.36	21.38	21.78
	12H	20.06	21.07	20.49	21.45	21.88	20.06	21.07	20.49	21.45	21.88
4H	2H	18.71	19.91	19.11	20.26	20.64	18.71	19.91	19.11	20.26	20.64
	3H	19.41	20.39	19.82	20.79	21.19	19.41	20.39	19.82	20.79	21.19
	4H	19.88	20.75	20.31	21.17	21.61	19.88	20.75	20.31	21.17	21.61
	6H	20.40	21.16	20.86	21.61	22.07	20.40	21.16	20.86	21.61	22.07
	8H	20.63	21.34	21.10	21.79	22.26	20.63	21.34	21.10	21.79	22.26
	12H	20.83	21.47	21.31	21.95	22.42	20.83	21.47	21.31	21.95	22.42
8H	4H	20.04	20.75	20.51	21.20	21.67	20.04	20.75	20.51	21.20	21.67
	6H	20.71	21.30	21.21	21.80	22.27	20.71	21.30	21.21	21.80	22.27
	8H	21.03	21.57	21.55	22.08	22.57	21.03	21.57	21.55	22.08	22.57
	12H	21.34	21.82	21.85	22.31	22.88	21.34	21.82	21.85	22.31	22.88
12H	4H	20.06	20.69	20.54	21.17	21.65	20.06	20.69	20.54	21.17	21.65
	6H	20.76	21.30	21.28	21.81	22.30	20.76	21.30	21.28	21.81	22.30
	8H	21.15	21.63	21.66	22.12	22.69	21.15	21.63	21.66	22.12	22.69