

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: P866775

Luminaire Tested: PRLX-2001-L-930-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866775
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-930-67L-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 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

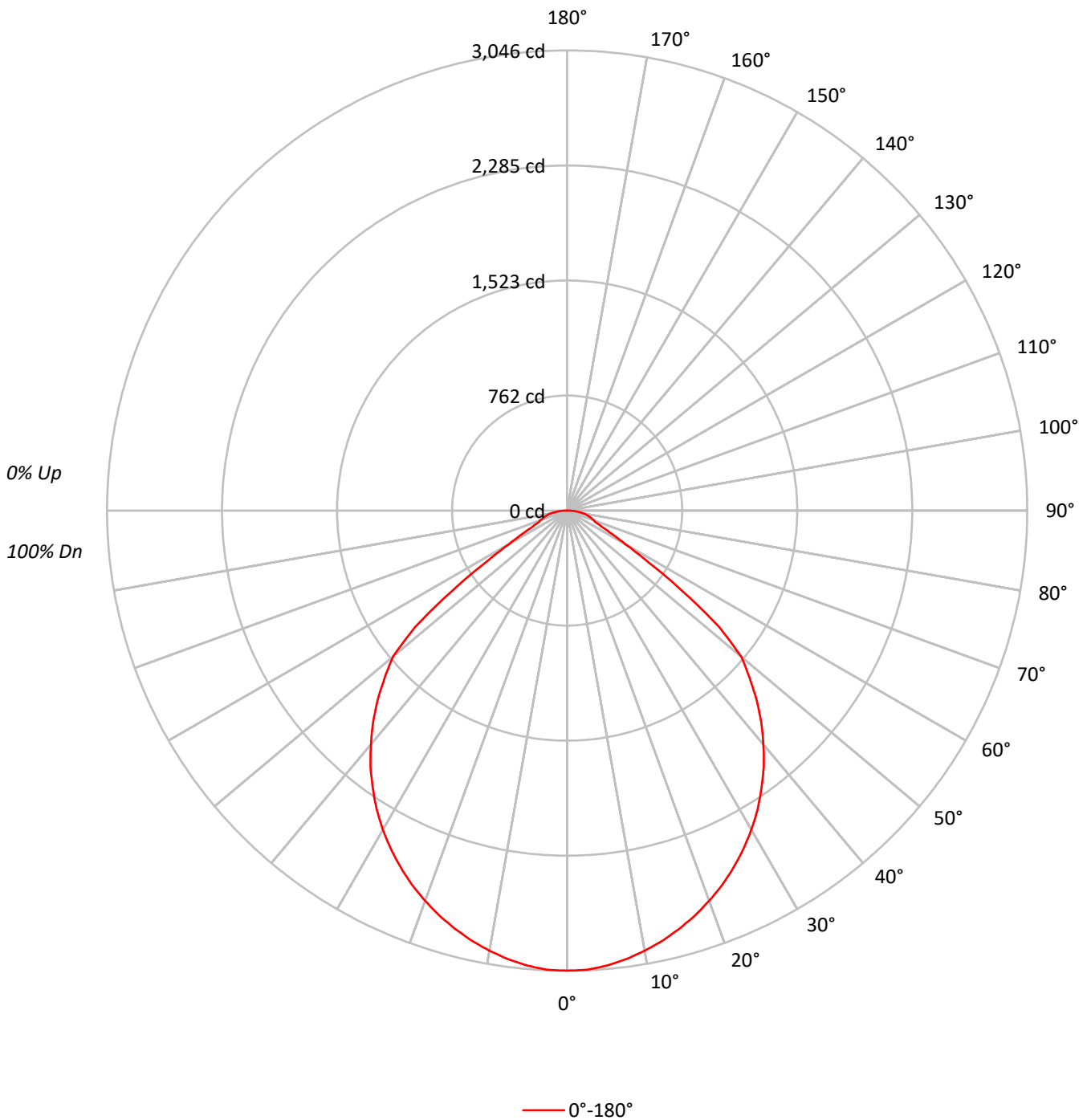
Lumens per Lamp: N/A
Luminaire Lumens: 6404.1 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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°	16650
5°	16592
10°	16420
15°	16220
20°	15991
25°	15726
30°	15394
35°	14970
40°	14421
45°	13705
50°	12789
55°	8982
60°	4862
65°	3310
70°	3010
75°	3196
80°	3438
85°	3676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	4.5
10°-20°	808.1	12.6
20°-30°	1200.4	18.7
30°-40°	1401.5	21.9
40°-50°	1364.2	21.3
50°-60°	848.9	13.3
60°-70°	273.6	4.3
70°-80°	158.8	2.5
80°-90°	62.1	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°	2295.0	35.8
0°-40°	3696.6	57.7
0°-60°	5909.6	92.3
0°-90°	6404.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6404.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3046	
5°	3023	287
15°	2866	808
25°	2607	1200
35°	2243	1402
45°	1773	1364
55°	942	849
65°	256	274
75°	151	159
85°	59	62
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3045.6
2.5°	3042.1
5°	3023.4
7.5°	2994.9
10°	2958.0
12.5°	2915.9
15°	2865.8
17.5°	2811.2
20°	2748.7
22.5°	2682.7
25°	2607.1
27.5°	2526.3
30°	2438.7
32.5°	2346.0
35°	2243.1
37.5°	2137.9
40°	2020.7
42.5°	1901.8
45°	1772.7
47.5°	1637.9
50°	1503.7
52.5°	1269.4
55°	942.4
57.5°	642.1
60°	444.7
62.5°	332.1
65°	255.9
67.5°	204.7
70°	188.3
72.5°	170.1
75°	151.3
77.5°	131.4
80°	109.2
82.5°	85.3
85°	58.6
87.5°	29.6
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	17.08	18.53	17.44	18.84	19.16	17.08	18.53	17.44	18.84	19.16
	3H	17.56	18.84	17.93	19.17	19.53	17.56	18.84	17.93	19.17	19.53
	4H	17.88	19.08	18.28	19.43	19.81	17.88	19.08	18.28	19.43	19.81
	6H	18.23	19.33	18.64	19.70	20.09	18.23	19.33	18.64	19.70	20.09
	8H	18.38	19.43	18.81	19.82	20.22	18.38	19.43	18.81	19.82	20.22
	12H	18.51	19.51	18.94	19.89	20.32	18.51	19.51	18.94	19.89	20.32
4H	2H	17.16	18.36	17.56	18.71	19.09	17.16	18.36	17.56	18.71	19.09
	3H	17.85	18.83	18.26	19.24	19.64	17.85	18.83	18.26	19.24	19.64
	4H	18.32	19.20	18.76	19.62	20.06	18.32	19.20	18.76	19.62	20.06
	6H	18.85	19.61	19.31	20.05	20.52	18.85	19.61	19.31	20.05	20.52
	8H	19.08	19.79	19.54	20.24	20.70	19.08	19.79	19.54	20.24	20.70
	12H	19.28	19.91	19.76	20.39	20.87	19.28	19.91	19.76	20.39	20.87
8H	4H	18.49	19.20	18.95	19.65	20.11	18.49	19.20	18.95	19.65	20.11
	6H	19.16	19.75	19.66	20.24	20.72	19.16	19.75	19.66	20.24	20.72
	8H	19.48	20.02	20.00	20.53	21.02	19.48	20.02	20.00	20.53	21.02
	12H	19.79	20.27	20.30	20.76	21.33	19.79	20.27	20.30	20.76	21.33
12H	4H	18.50	19.14	18.99	19.62	20.09	18.50	19.14	18.99	19.62	20.09
	6H	19.21	19.74	19.72	20.25	20.74	19.21	19.74	19.72	20.25	20.74
	8H	19.60	20.08	20.11	20.57	21.14	19.60	20.08	20.11	20.57	21.14