

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: P866751

Luminaire Tested: PRLX-2001-L-930-15L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866751
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: Pentalux
Catalog Number: PRLX-2001-L-930-15L-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 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

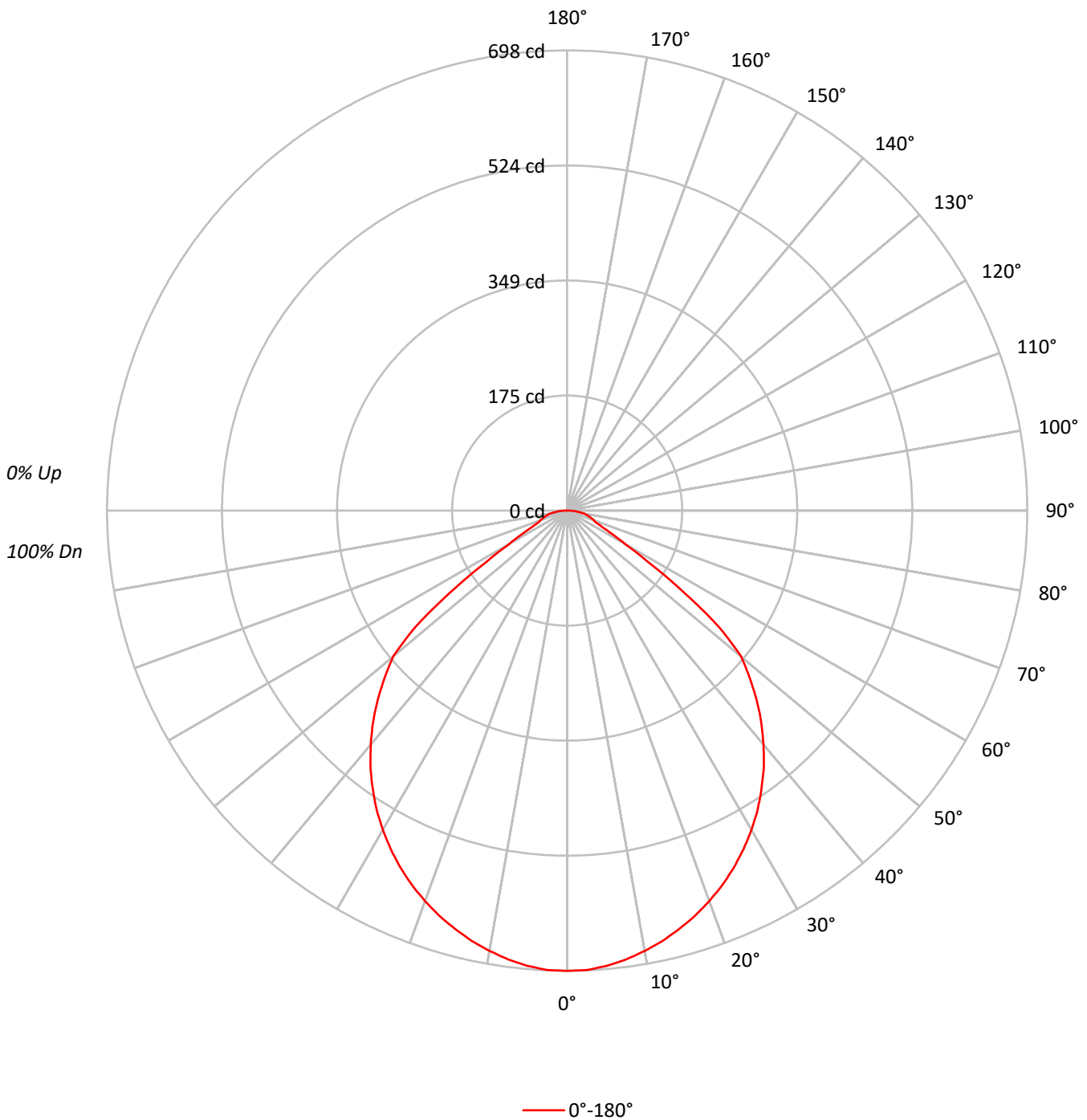
Lumens per Lamp: N/A
Luminaire Lumens: 1468.2 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	3817
5°	3804
10°	3764
15°	3718
20°	3666
25°	3605
30°	3529
35°	3432
40°	3306
45°	3142
50°	2932
55°	2059
60°	1115
65°	759
70°	691
75°	733
80°	787
85°	841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	4.5
10°-20°	185.3	12.6
20°-30°	275.2	18.7
30°-40°	321.3	21.9
40°-50°	312.8	21.3
50°-60°	194.6	13.3
60°-70°	62.7	4.3
70°-80°	36.4	2.5
80°-90°	14.2	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°	526.2	35.8
0°-40°	847.5	57.7
0°-60°	1354.8	92.3
0°-90°	1468.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	693	66
15°	657	185
25°	598	275
35°	514	321
45°	406	313
55°	216	195
65°	59	63
75°	35	36
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	698.2
2.5°	697.4
5°	693.1
7.5°	686.6
10°	678.1
12.5°	668.5
15°	657.0
17.5°	644.5
20°	630.2
22.5°	615.0
25°	597.7
27.5°	579.2
30°	559.1
32.5°	537.8
35°	514.2
37.5°	490.1
40°	463.3
42.5°	436.0
45°	406.4
47.5°	375.5
50°	344.7
52.5°	291.0
55°	216.0
57.5°	147.2
60°	102.0
62.5°	76.1
65°	58.7
67.5°	46.9
70°	43.2
72.5°	39.0
75°	34.7
77.5°	30.1
80°	25.0
82.5°	19.6
85°	13.4
87.5°	6.8
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	11.96	13.41	12.32	13.72	14.04	11.96	13.41	12.32	13.72	14.04
	3H	12.44	13.73	12.82	14.05	14.42	12.44	13.73	12.82	14.05	14.42
	4H	12.76	13.96	13.16	14.31	14.69	12.76	13.96	13.16	14.31	14.69
	6H	13.11	14.21	13.52	14.58	14.98	13.11	14.21	13.52	14.58	14.98
	8H	13.26	14.31	13.69	14.70	15.11	13.26	14.31	13.69	14.70	15.11
	12H	13.39	14.39	13.82	14.78	15.21	13.39	14.39	13.82	14.78	15.21
4H	2H	12.04	13.24	12.44	13.59	13.97	12.04	13.24	12.44	13.59	13.97
	3H	12.73	13.72	13.15	14.12	14.52	12.73	13.72	13.15	14.12	14.52
	4H	13.20	14.08	13.64	14.50	14.94	13.20	14.08	13.64	14.50	14.94
	6H	13.73	14.49	14.19	14.94	15.40	13.73	14.49	14.19	14.94	15.40
	8H	13.96	14.67	14.43	15.12	15.59	13.96	14.67	14.43	15.12	15.59
	12H	14.16	14.80	14.64	15.28	15.75	14.16	14.80	14.64	15.28	15.75
8H	4H	13.37	14.08	13.84	14.53	15.00	13.37	14.08	13.84	14.53	15.00
	6H	14.04	14.63	14.54	15.12	15.60	14.04	14.63	14.54	15.12	15.60
	8H	14.36	14.90	14.88	15.41	15.90	14.36	14.90	14.88	15.41	15.90
	12H	14.67	15.15	15.18	15.64	16.21	14.67	15.15	15.18	15.64	16.21
12H	4H	13.39	14.02	13.87	14.50	14.98	13.39	14.02	13.87	14.50	14.98
	6H	14.09	14.62	14.60	15.14	15.63	14.09	14.62	14.60	15.14	15.63
	8H	14.48	14.96	14.99	15.45	16.02	14.48	14.96	14.99	15.45	16.02