

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: P866863

Luminaire Tested: PRLX-2001-L-940-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866863
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-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

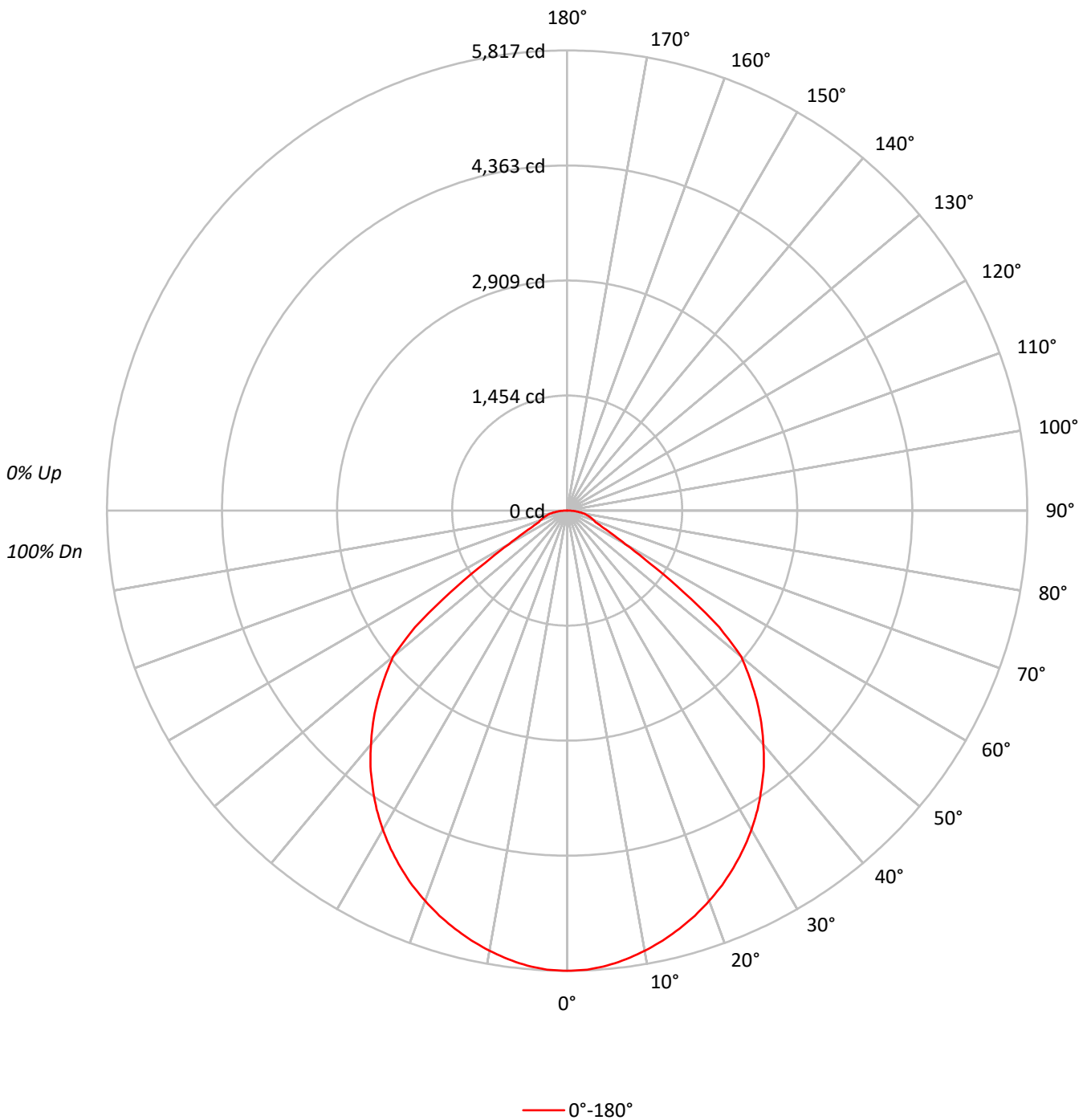
Lumens per Lamp: N/A
Luminaire Lumens: 12232.2 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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°	31802
5°	31691
10°	31364
15°	30981
20°	30544
25°	30037
30°	29405
35°	28593
40°	27545
45°	26178
50°	24428
55°	17156
60°	9288
65°	6323
70°	5748
75°	6104
80°	6567
85°	7019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.2	4.5
10°-20°	1543.6	12.6
20°-30°	2292.8	18.7
30°-40°	2677.0	21.9
40°-50°	2605.8	21.3
50°-60°	1621.3	13.3
60°-70°	522.7	4.3
70°-80°	303.3	2.5
80°-90°	118.5	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°	4383.6	35.8
0°-40°	7060.6	57.7
0°-60°	11287.7	92.3
0°-90°	12232.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12232.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5817	
5°	5775	547
15°	5474	1544
25°	4980	2293
35°	4284	2677
45°	3386	2606
55°	1800	1621
65°	489	523
75°	289	303
85°	112	119
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5817.2
2.5°	5810.7
5°	5774.8
7.5°	5720.5
10°	5649.9
12.5°	5569.5
15°	5473.9
17.5°	5369.6
20°	5250.1
22.5°	5124.1
25°	4979.6
27.5°	4825.4
30°	4658.1
32.5°	4481.0
35°	4284.4
37.5°	4083.4
40°	3859.7
42.5°	3632.6
45°	3386.0
47.5°	3128.6
50°	2872.2
52.5°	2424.6
55°	1800.0
57.5°	1226.4
60°	849.5
62.5°	634.4
65°	488.8
67.5°	391.1
70°	359.6
72.5°	324.8
75°	289.0
77.5°	250.9
80°	208.6
82.5°	162.9
85°	111.9
87.5°	56.5
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	19.32	20.78	19.69	21.09	21.40	19.32	20.78	19.69	21.09	21.40
	3H	19.80	21.09	20.18	21.42	21.78	19.80	21.09	20.18	21.42	21.78
	4H	20.12	21.33	20.53	21.68	22.06	20.12	21.33	20.53	21.68	22.06
	6H	20.47	21.58	20.89	21.95	22.34	20.47	21.58	20.89	21.95	22.34
	8H	20.63	21.68	21.06	22.07	22.47	20.63	21.68	21.06	22.07	22.47
	12H	20.76	21.76	21.19	22.14	22.57	20.76	21.76	21.19	22.14	22.57
4H	2H	19.40	20.61	19.81	20.96	21.34	19.40	20.61	19.81	20.96	21.34
	3H	20.10	21.08	20.51	21.48	21.89	20.10	21.08	20.51	21.48	21.89
	4H	20.57	21.45	21.00	21.87	22.31	20.57	21.45	21.00	21.87	22.31
	6H	21.10	21.86	21.56	22.30	22.77	21.10	21.86	21.56	22.30	22.77
	8H	21.32	22.04	21.79	22.48	22.95	21.32	22.04	21.79	22.48	22.95
	12H	21.52	22.16	22.01	22.64	23.11	21.52	22.16	22.01	22.64	23.11
8H	4H	20.73	21.45	21.20	21.89	22.36	20.73	21.45	21.20	21.89	22.36
	6H	21.40	22.00	21.90	22.49	22.97	21.40	22.00	21.90	22.49	22.97
	8H	21.73	22.26	22.25	22.78	23.27	21.73	22.26	22.25	22.78	23.27
	12H	22.03	22.51	22.54	23.01	23.57	22.03	22.51	22.54	23.01	23.57
12H	4H	20.75	21.39	21.24	21.87	22.34	20.75	21.39	21.24	21.87	22.34
	6H	21.45	21.99	21.97	22.50	22.99	21.45	21.99	21.97	22.50	22.99
	8H	21.84	22.32	22.36	22.82	23.38	21.84	22.32	22.36	22.82	23.38