

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: P866991

Luminaire Tested: PRLX-2002-L-930-117L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-117L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

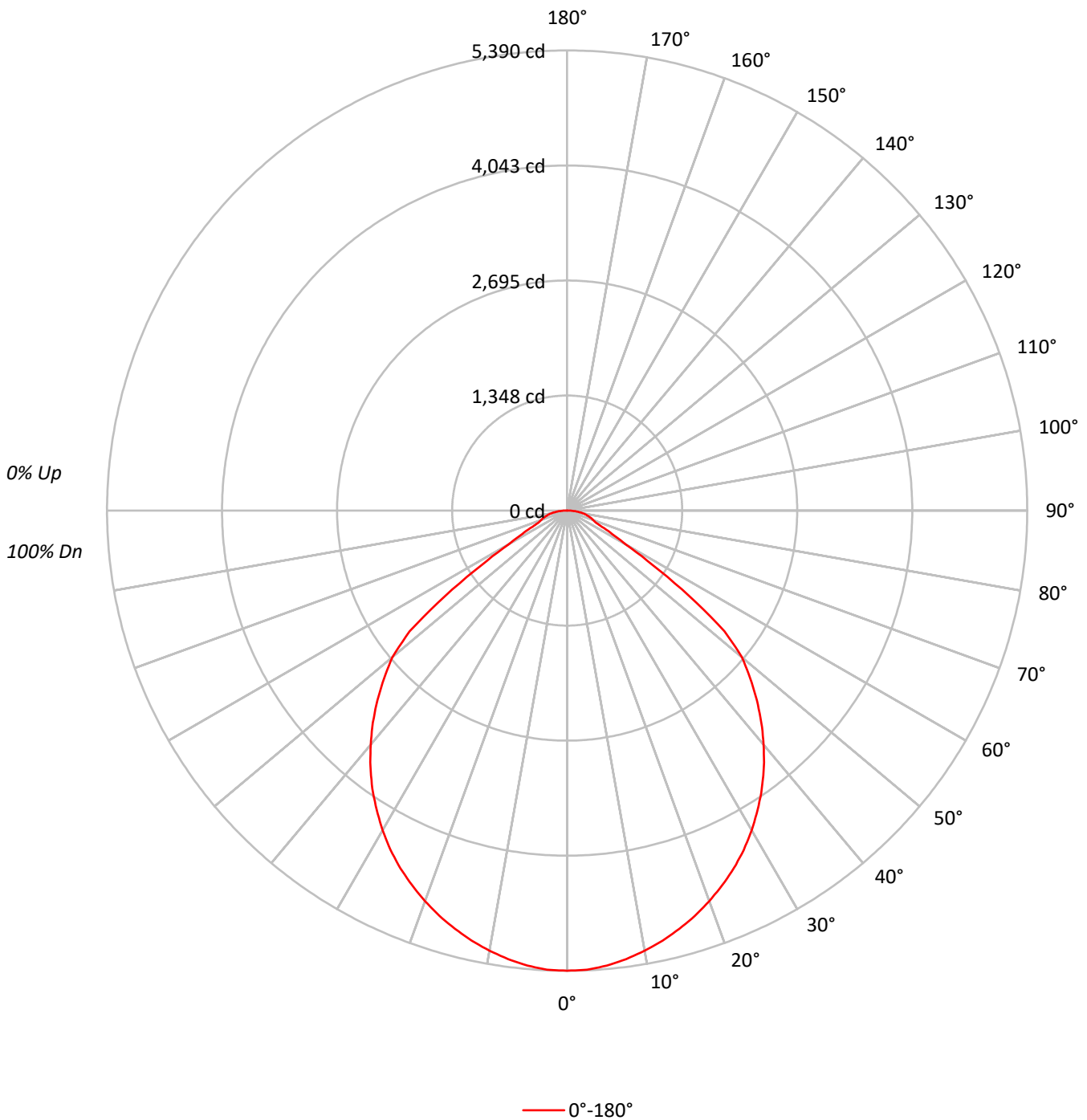
Lumens per Lamp: N/A
Luminaire Lumens: 11385.1 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26593
5°	26495
10°	26221
15°	25905
20°	25555
25°	25159
30°	24625
35°	23953
40°	23059
45°	21917
50°	20508
55°	15021
60°	7851
65°	5231
70°	4678
75°	4972
80°	5435
85°	5984

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.9	4.5
10°-20°	1430.4	12.6
20°-30°	2127.2	18.7
30°-40°	2483.0	21.8
40°-50°	2419.1	21.2
50°-60°	1549.8	13.6
60°-70°	482.6	4.2
70°-80°	274.9	2.4
80°-90°	111.3	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°	4064.6	35.7
0°-40°	6547.6	57.5
0°-60°	10516.4	92.4
0°-90°	11385.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11385.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5390	
5°	5350	507
15°	5072	1430
25°	4622	2127
35°	3977	2483
45°	3141	2419
55°	1746	1550
65°	448	483
75°	261	275
85°	106	111
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5389.9
2.5°	5381.8
5°	5349.6
7.5°	5299.2
10°	5233.8
12.5°	5160.3
15°	5071.6
17.5°	4977.0
20°	4867.2
22.5°	4749.4
25°	4621.5
27.5°	4480.5
30°	4322.4
32.5°	4154.2
35°	3976.9
37.5°	3785.6
40°	3580.2
42.5°	3367.7
45°	3141.1
47.5°	2909.4
50°	2671.8
52.5°	2325.3
55°	1746.3
57.5°	1182.3
60°	795.6
62.5°	593.2
65°	448.1
67.5°	355.5
70°	324.3
72.5°	295.1
75°	260.8
77.5°	227.6
80°	191.3
82.5°	151.1
85°	105.7
87.5°	56.4
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	18.95	20.40	19.31	20.72	21.03	18.95	20.40	19.31	20.72	21.03
	3H	19.36	20.65	19.74	20.98	21.35	19.36	20.65	19.74	20.98	21.35
	4H	19.65	20.85	20.05	21.20	21.58	19.65	20.85	20.05	21.20	21.58
	6H	19.97	21.08	20.38	21.44	21.84	19.97	21.08	20.38	21.44	21.84
	8H	20.11	21.17	20.54	21.56	21.96	20.11	21.17	20.54	21.56	21.96
	12H	20.24	21.25	20.67	21.63	22.06	20.24	21.25	20.67	21.63	22.06
4H	2H	19.01	20.21	19.41	20.56	20.94	19.01	20.21	19.41	20.56	20.94
	3H	19.62	20.61	20.03	21.01	21.41	19.62	20.61	20.03	21.01	21.41
	4H	20.05	20.93	20.48	21.34	21.78	20.05	20.93	20.48	21.34	21.78
	6H	20.54	21.30	21.00	21.74	22.21	20.54	21.30	21.00	21.74	22.21
	8H	20.76	21.47	21.22	21.92	22.39	20.76	21.47	21.22	21.92	22.39
	12H	20.96	21.60	21.44	22.08	22.55	20.96	21.60	21.44	22.08	22.55
8H	4H	20.19	20.90	20.66	21.35	21.82	20.19	20.90	20.66	21.35	21.82
	6H	20.82	21.41	21.32	21.91	22.39	20.82	21.41	21.32	21.91	22.39
	8H	21.14	21.68	21.66	22.19	22.68	21.14	21.68	21.66	22.19	22.68
	12H	21.45	21.93	21.96	22.42	22.99	21.45	21.93	21.96	22.42	22.99
12H	4H	20.20	20.84	20.69	21.32	21.79	20.20	20.84	20.69	21.32	21.79
	6H	20.87	21.40	21.38	21.92	22.41	20.87	21.40	21.38	21.92	22.41
	8H	21.25	21.73	21.76	22.23	22.79	21.25	21.73	21.76	22.23	22.79