

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: P866669

Luminaire Tested: PRLX-2001-L-927-117L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-117L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

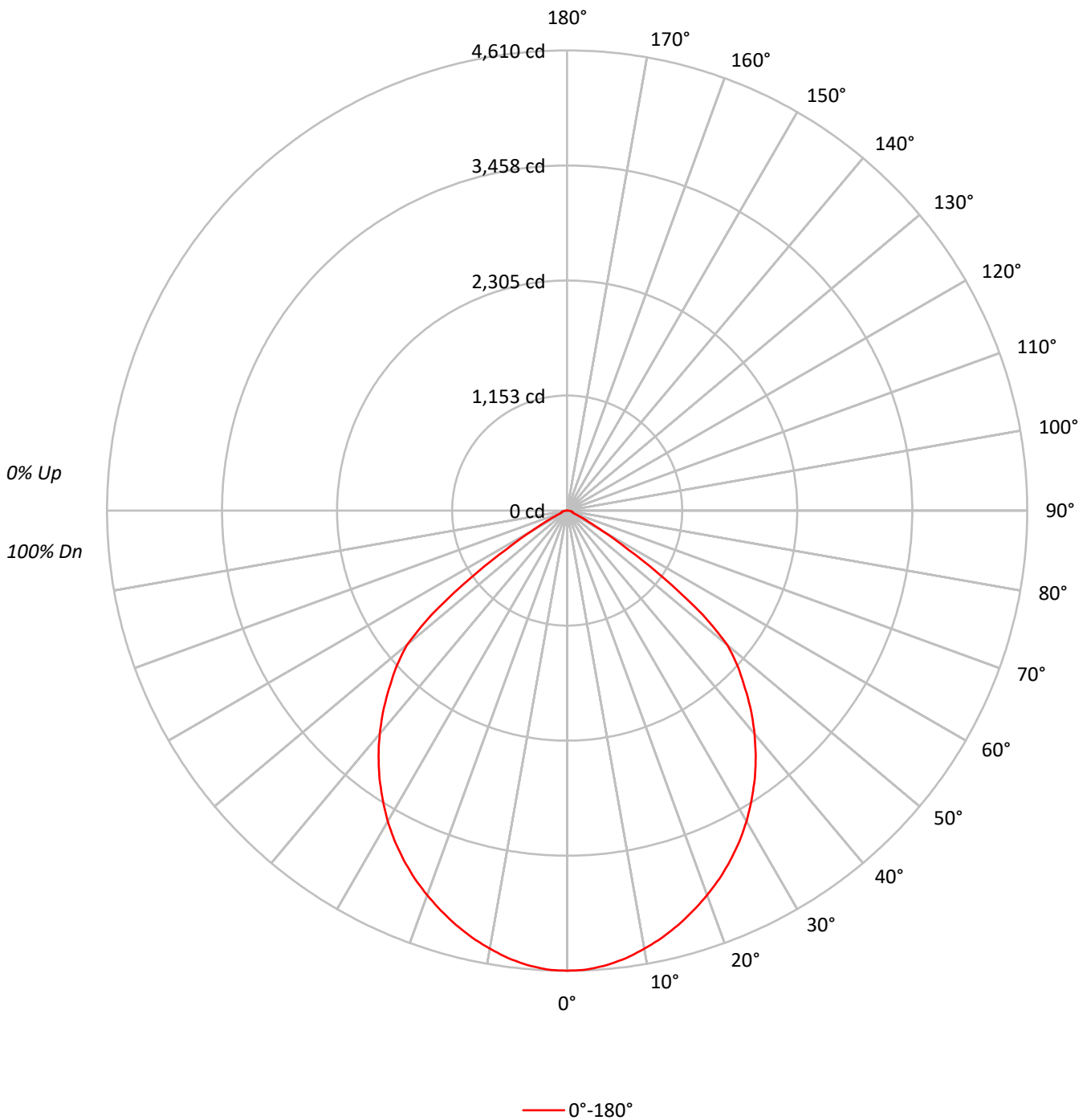
Lumens per Lamp: N/A
Luminaire Lumens: 8738.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97		98	96	94		95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25203
5°	25082
10°	24740
15°	24323
20°	23858
25°	23329
30°	22685
35°	21866
40°	20843
45°	19502
50°	17827
55°	11313
60°	4487
65°	1717
70°	1037
75°	1132
80°	1275
85°	1418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	5.0
10°-20°	1211.1	13.9
20°-30°	1780.2	20.4
30°-40°	2045.5	23.4
40°-50°	1943.4	22.2
50°-60°	1077.5	12.3
60°-70°	168.2	1.9
70°-80°	56.4	0.6
80°-90°	23.4	0.3
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°	3424.0	39.2
0°-40°	5469.5	62.6
0°-60°	8490.4	97.2
0°-90°	8738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8738.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4610	
5°	4570	433
15°	4298	1211
25°	3868	1780
35°	3276	2045
45°	2522	1943
55°	1187	1078
65°	133	168
75°	54	56
85°	23	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4610.1
2.5°	4602.5
5°	4570.5
7.5°	4522.5
10°	4456.7
12.5°	4384.2
15°	4297.6
17.5°	4202.5
20°	4100.9
22.5°	3990.8
25°	3867.5
27.5°	3737.6
30°	3593.6
32.5°	3439.2
35°	3276.4
37.5°	3104.1
40°	2920.6
42.5°	2729.5
45°	2522.5
47.5°	2322.0
50°	2096.1
52.5°	1711.1
55°	1186.9
57.5°	721.9
60°	410.4
62.5°	243.8
65°	132.7
67.5°	72.5
70°	64.9
72.5°	59.3
75°	53.6
77.5°	48.0
80°	40.5
82.5°	32.0
85°	22.6
87.5°	11.3
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	16.84	18.21	17.20	18.53	18.84	16.84	18.21	17.20	18.53	18.84
	3H	16.78	17.99	17.16	18.32	18.68	16.78	17.99	17.16	18.32	18.68
	4H	16.75	17.88	17.16	18.23	18.61	16.75	17.88	17.16	18.23	18.61
	6H	16.74	17.77	17.15	18.14	18.53	16.74	17.77	17.15	18.14	18.53
	8H	16.73	17.70	17.16	18.10	18.50	16.73	17.70	17.16	18.10	18.50
	12H	16.72	17.65	17.15	18.03	18.46	16.72	17.65	17.15	18.03	18.46
4H	2H	16.71	17.83	17.11	18.18	18.56	16.71	17.83	17.11	18.18	18.56
	3H	16.68	17.58	17.09	17.99	18.39	16.68	17.58	17.09	17.99	18.39
	4H	16.67	17.47	17.10	17.89	18.33	16.67	17.47	17.10	17.89	18.33
	6H	16.69	17.39	17.16	17.83	18.30	16.69	17.39	17.16	17.83	18.30
	8H	16.69	17.34	17.16	17.79	18.26	16.69	17.34	17.16	17.79	18.26
	12H	16.70	17.27	17.18	17.76	18.23	16.70	17.27	17.18	17.76	18.23
8H	4H	16.58	17.23	17.05	17.67	18.14	16.58	17.23	17.05	17.67	18.14
	6H	16.62	17.15	17.12	17.65	18.13	16.62	17.15	17.12	17.65	18.13
	8H	16.64	17.12	17.16	17.64	18.13	16.64	17.12	17.16	17.64	18.13
	12H	16.68	17.11	17.19	17.61	18.18	16.68	17.11	17.19	17.61	18.18
12H	4H	16.54	17.12	17.03	17.60	18.07	16.54	17.12	17.03	17.60	18.07
	6H	16.58	17.06	17.10	17.58	18.07	16.58	17.06	17.10	17.58	18.07
	8H	16.63	17.06	17.14	17.56	18.13	16.63	17.06	17.14	17.56	18.13