

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: P866678

Luminaire Tested: PRLX-2001-L-927-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

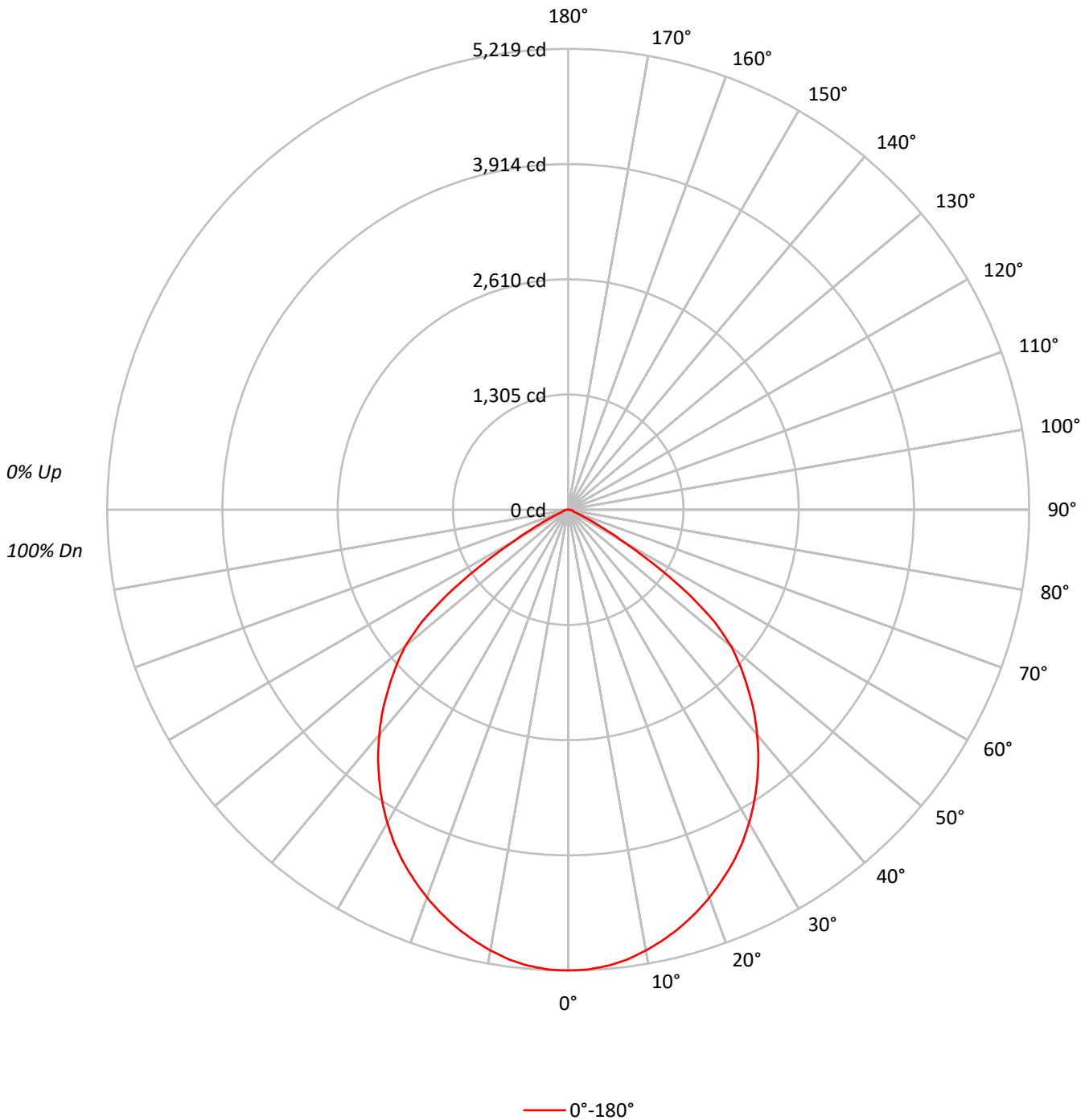
Lumens per Lamp: N/A
Luminaire Lumens: 10249.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: 0.5 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	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28529
5°	28449
10°	28138
15°	27712
20°	27194
25°	26603
30°	25853
35°	24902
40°	23744
45°	22298
50°	20487
55°	15820
60°	7648
65°	2886
70°	1136
75°	1253
80°	1426
85°	1625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	4.8
10°-20°	1379.5	13.5
20°-30°	2029.0	19.8
30°-40°	2330.3	22.7
40°-50°	2221.4	21.7
50°-60°	1434.0	14.0
60°-70°	275.5	2.7
70°-80°	62.1	0.6
80°-90°	26.7	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°	3899.7	38.0
0°-40°	6230.0	60.8
0°-60°	9885.4	96.4
0°-90°	10249.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10249.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5219	
5°	5184	491
15°	4896	1380
25°	4410	2029
35°	3731	2330
45°	2884	2221
55°	1660	1434
65°	223	275
75°	59	62
85°	26	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5218.6
2.5°	5212.1
5°	5184.1
7.5°	5136.7
10°	5068.8
12.5°	4987.9
15°	4896.3
17.5°	4790.7
20°	4674.3
22.5°	4546.1
25°	4410.3
27.5°	4260.4
30°	4095.5
32.5°	3918.8
35°	3731.3
37.5°	3536.2
40°	3327.1
42.5°	3116.9
45°	2884.1
47.5°	2654.6
50°	2408.8
52.5°	2090.9
55°	1659.8
57.5°	1156.5
60°	699.5
62.5°	400.9
65°	223.1
67.5°	116.4
70°	71.1
72.5°	64.7
75°	59.3
77.5°	52.8
80°	45.3
82.5°	36.6
85°	25.9
87.5°	12.9
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	19.55	20.95	19.91	21.26	21.58	19.55	20.95	19.91	21.26	21.58
	3H	19.47	20.71	19.85	21.03	21.40	19.47	20.71	19.85	21.03	21.40
	4H	19.43	20.57	19.83	20.92	21.30	19.43	20.57	19.83	20.92	21.30
	6H	19.38	20.43	19.80	20.80	21.20	19.38	20.43	19.80	20.80	21.20
	8H	19.36	20.35	19.79	20.74	21.15	19.36	20.35	19.79	20.74	21.15
	12H	19.33	20.28	19.76	20.67	21.10	19.33	20.28	19.76	20.67	21.10
4H	2H	19.43	20.57	19.83	20.92	21.31	19.43	20.57	19.83	20.92	21.31
	3H	19.37	20.29	19.78	20.70	21.10	19.37	20.29	19.78	20.70	21.10
	4H	19.32	20.14	19.76	20.56	21.00	19.32	20.14	19.76	20.56	21.00
	6H	19.30	20.00	19.76	20.45	20.91	19.30	20.00	19.76	20.45	20.91
	8H	19.27	19.93	19.74	20.38	20.85	19.27	19.93	19.74	20.38	20.85
	12H	19.25	19.84	19.74	20.32	20.80	19.25	19.84	19.74	20.32	20.80
8H	4H	19.21	19.87	19.68	20.32	20.79	19.21	19.87	19.68	20.32	20.79
	6H	19.18	19.73	19.68	20.22	20.70	19.18	19.73	19.68	20.22	20.70
	8H	19.16	19.66	19.68	20.17	20.66	19.16	19.66	19.68	20.17	20.66
	12H	19.16	19.60	19.67	20.10	20.67	19.16	19.60	19.67	20.10	20.67
12H	4H	19.17	19.76	19.66	20.24	20.71	19.17	19.76	19.66	20.24	20.71
	6H	19.13	19.62	19.65	20.14	20.63	19.13	19.62	19.65	20.14	20.63
	8H	19.13	19.58	19.64	20.07	20.64	19.13	19.58	19.64	20.07	20.64