

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: P866934

Luminaire Tested: PRLX-2002-L-927-133L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-927-133L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

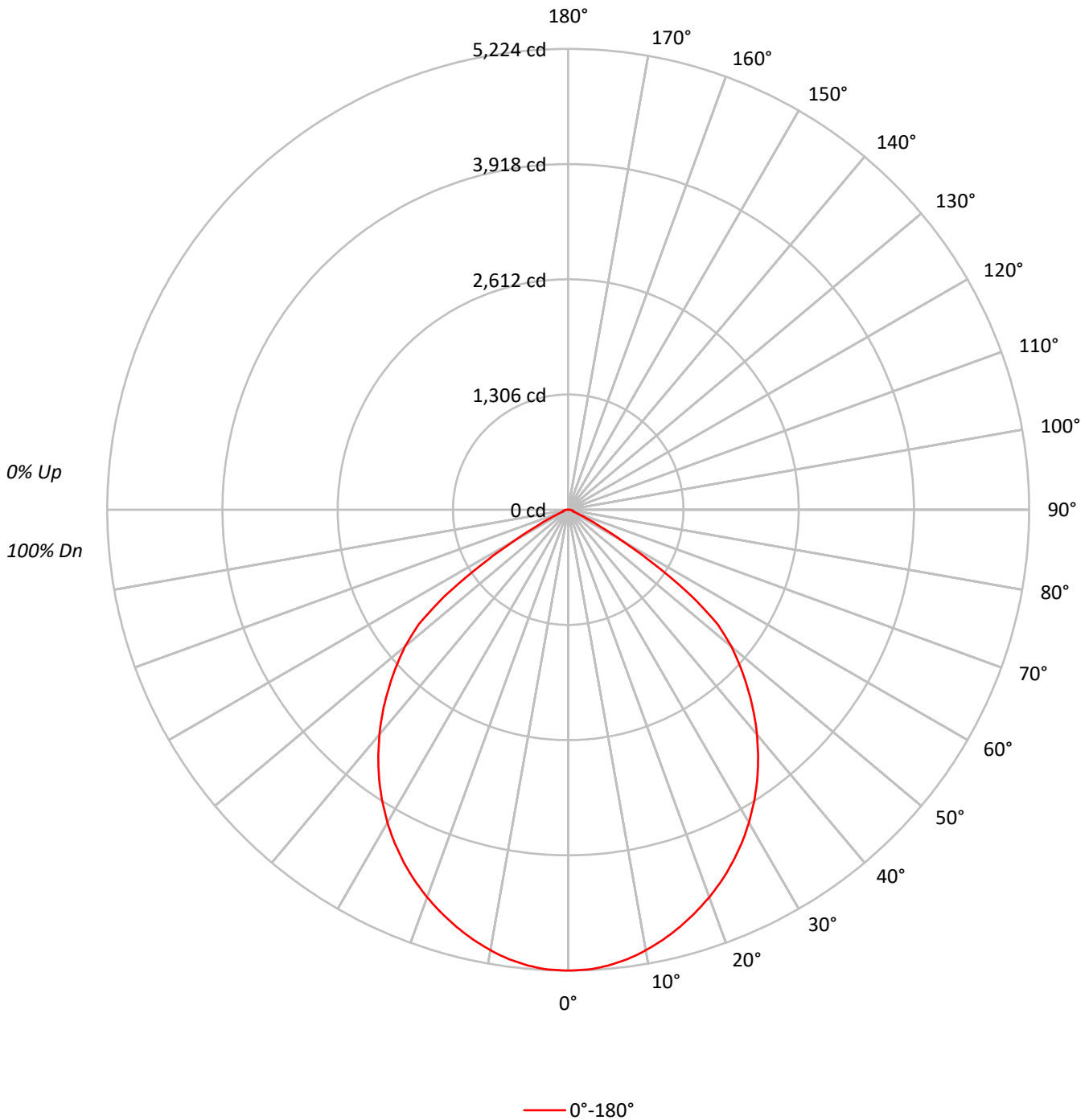
Lumens per Lamp: N/A
Luminaire Lumens: 10267.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (Ain): 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	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	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	34	45	39	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25774
5°	25696
10°	25410
15°	25005
20°	24548
25°	24009
30°	23332
35°	22506
40°	21429
45°	20109
50°	18531
55°	14732
60°	6934
65°	2504
70°	964
75°	1068
80°	1225
85°	1466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	4.8
10°-20°	1379.5	13.4
20°-30°	2029.2	19.8
30°-40°	2331.3	22.7
40°-50°	2220.5	21.6
50°-60°	1460.2	14.2
60°-70°	269.7	2.6
70°-80°	58.9	0.6
80°-90°	26.4	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°	3900.3	38.0
0°-40°	6231.5	60.7
0°-60°	9912.2	96.5
0°-90°	10267.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10267.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5224	
5°	5188	492
15°	4895	1380
25°	4410	2029
35°	3737	2331
45°	2882	2220
55°	1713	1460
65°	214	270
75°	56	59
85°	26	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5224.0
2.5°	5218.6
5°	5188.4
7.5°	5139.9
10°	5072.0
12.5°	4989.0
15°	4895.3
17.5°	4789.6
20°	4675.4
22.5°	4548.2
25°	4410.3
27.5°	4259.4
30°	4095.5
32.5°	3919.9
35°	3736.6
37.5°	3536.2
40°	3327.1
42.5°	3112.6
45°	2882.0
47.5°	2653.5
50°	2414.2
52.5°	2134.0
55°	1712.6
57.5°	1173.7
60°	702.7
62.5°	395.5
65°	214.5
67.5°	107.8
70°	66.8
72.5°	61.4
75°	56.0
77.5°	50.7
80°	43.1
82.5°	35.6
85°	25.9
87.5°	14.0
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	19.28	20.68	19.65	21.00	21.31	19.28	20.68	19.65	21.00	21.31
	3H	19.20	20.43	19.58	20.76	21.13	19.20	20.43	19.58	20.76	21.13
	4H	19.15	20.30	19.55	20.65	21.03	19.15	20.30	19.55	20.65	21.03
	6H	19.10	20.16	19.52	20.52	20.92	19.10	20.16	19.52	20.52	20.92
	8H	19.08	20.07	19.51	20.46	20.87	19.08	20.07	19.51	20.46	20.87
	12H	19.05	20.00	19.48	20.39	20.82	19.05	20.00	19.48	20.39	20.82
4H	2H	19.16	20.30	19.56	20.65	21.04	19.16	20.30	19.56	20.65	21.04
	3H	19.09	20.01	19.50	20.42	20.82	19.09	20.01	19.50	20.42	20.82
	4H	19.04	19.86	19.47	20.28	20.72	19.04	19.86	19.47	20.28	20.72
	6H	19.01	19.71	19.47	20.16	20.63	19.01	19.71	19.47	20.16	20.63
	8H	18.98	19.64	19.44	20.09	20.56	18.98	19.64	19.44	20.09	20.56
	12H	18.96	19.55	19.44	20.03	20.50	18.96	19.55	19.44	20.03	20.50
8H	4H	18.92	19.59	19.39	20.03	20.50	18.92	19.59	19.39	20.03	20.50
	6H	18.89	19.43	19.39	19.93	20.41	18.89	19.43	19.39	19.93	20.41
	8H	18.86	19.36	19.38	19.87	20.36	18.86	19.36	19.38	19.87	20.36
	12H	18.86	19.30	19.37	19.80	20.37	18.86	19.30	19.37	19.80	20.37
12H	4H	18.88	19.47	19.37	19.95	20.43	18.88	19.47	19.37	19.95	20.43
	6H	18.83	19.33	19.35	19.84	20.33	18.83	19.33	19.35	19.84	20.33
	8H	18.83	19.28	19.34	19.77	20.34	18.83	19.28	19.34	19.77	20.34