

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: P866679

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866679
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-927-133L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

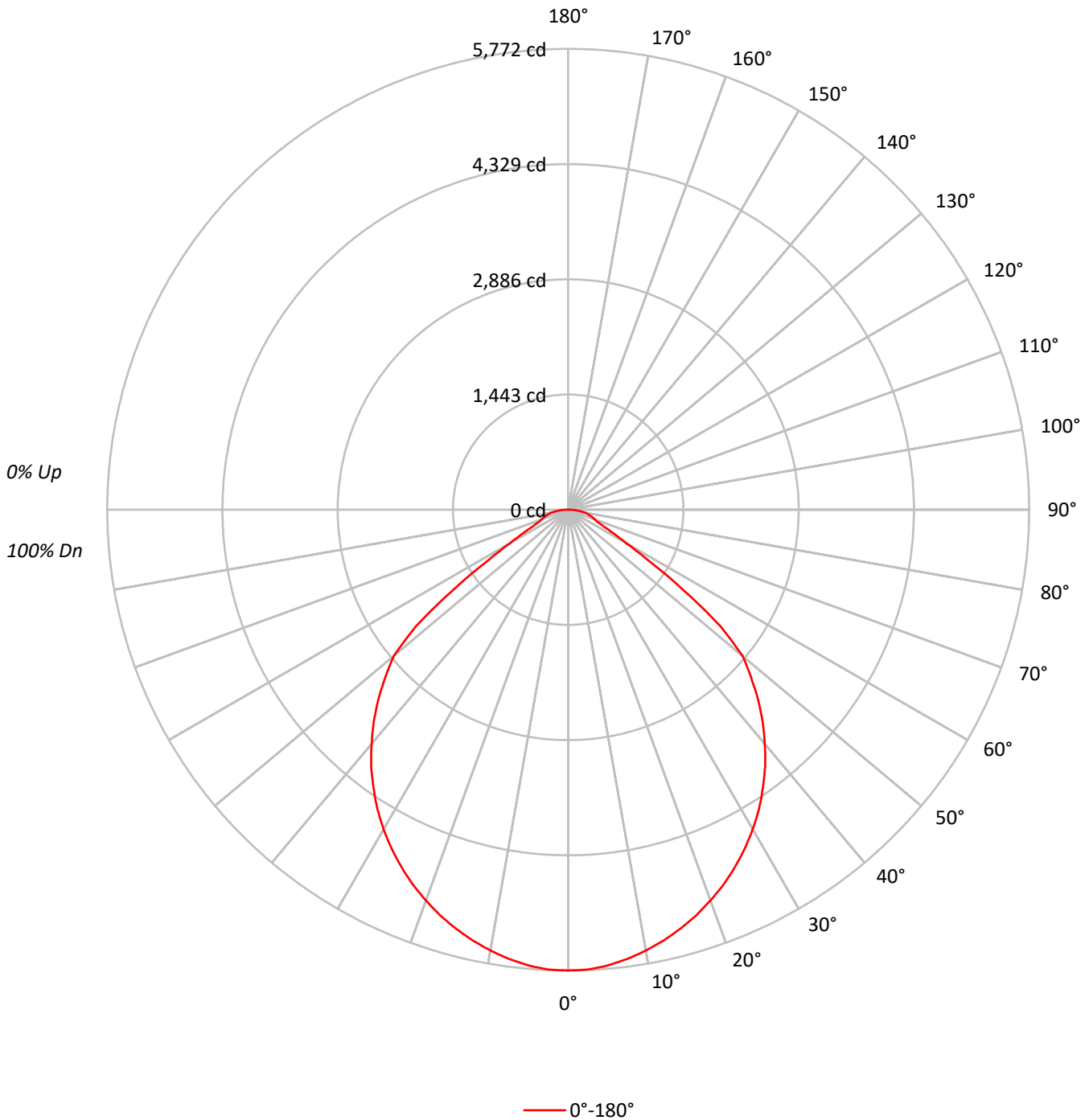
Lumens per Lamp: N/A
Luminaire Lumens: 12136.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.333 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°	31552
5°	31441
10°	31117
15°	30737
20°	30304
25°	29801
30°	29174
35°	28368
40°	27328
45°	25973
50°	24236
55°	17022
60°	9215
65°	6274
70°	5701
75°	6056
80°	6514
85°	6962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.9	4.5
10°-20°	1531.5	12.6
20°-30°	2274.8	18.7
30°-40°	2656.0	21.9
40°-50°	2585.3	21.3
50°-60°	1608.6	13.3
60°-70°	518.6	4.3
70°-80°	300.9	2.5
80°-90°	117.6	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°	4349.2	35.8
0°-40°	7005.1	57.7
0°-60°	11199.1	92.3
0°-90°	12136.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12136.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5772	
5°	5729	543
15°	5431	1531
25°	4940	2275
35°	4251	2656
45°	3359	2585
55°	1786	1609
65°	485	519
75°	287	301
85°	111	118
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	5771.5
2.5°	5765.0
5°	5729.4
7.5°	5675.6
10°	5605.5
12.5°	5525.7
15°	5430.9
17.5°	5327.4
20°	5208.9
22.5°	5083.9
25°	4940.5
27.5°	4787.5
30°	4621.5
32.5°	4445.8
35°	4250.7
37.5°	4051.4
40°	3829.3
42.5°	3604.1
45°	3359.4
47.5°	3104.0
50°	2849.6
52.5°	2405.6
55°	1785.9
57.5°	1216.8
60°	842.8
62.5°	629.4
65°	485.0
67.5°	388.0
70°	356.7
72.5°	322.3
75°	286.7
77.5°	249.0
80°	206.9
82.5°	161.7
85°	111.0
87.5°	56.0
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	19.30	20.75	19.66	21.06	21.38	19.30	20.75	19.66	21.06	21.38
	3H	19.78	21.06	20.15	21.39	21.76	19.78	21.06	20.15	21.39	21.76
	4H	20.10	21.30	20.50	21.65	22.03	20.10	21.30	20.50	21.65	22.03
	6H	20.45	21.55	20.86	21.92	22.31	20.45	21.55	20.86	21.92	22.31
	8H	20.60	21.65	21.03	22.04	22.45	20.60	21.65	21.03	22.04	22.45
	12H	20.73	21.73	21.16	22.12	22.55	20.73	21.73	21.16	22.12	22.55
4H	2H	19.38	20.58	19.78	20.93	21.31	19.38	20.58	19.78	20.93	21.31
	3H	20.07	21.05	20.48	21.46	21.86	20.07	21.05	20.48	21.46	21.86
	4H	20.54	21.42	20.98	21.84	22.28	20.54	21.42	20.98	21.84	22.28
	6H	21.07	21.83	21.53	22.28	22.74	21.07	21.83	21.53	22.28	22.74
	8H	21.30	22.01	21.76	22.46	22.93	21.30	22.01	21.76	22.46	22.93
	12H	21.50	22.13	21.98	22.61	23.09	21.50	22.13	21.98	22.61	23.09
8H	4H	20.71	21.42	21.17	21.87	22.34	20.71	21.42	21.17	21.87	22.34
	6H	21.38	21.97	21.88	22.46	22.94	21.38	21.97	21.88	22.46	22.94
	8H	21.70	22.24	22.22	22.75	23.24	21.70	22.24	22.22	22.75	23.24
	12H	22.01	22.49	22.52	22.98	23.55	22.01	22.49	22.52	22.98	23.55
12H	4H	20.72	21.36	21.21	21.84	22.31	20.72	21.36	21.21	21.84	22.31
	6H	21.43	21.96	21.94	22.47	22.96	21.43	21.96	21.94	22.47	22.96
	8H	21.82	22.30	22.33	22.79	23.36	21.82	22.30	22.33	22.79	23.36