

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: P865955

Luminaire Tested: PRLX-2001-M-927-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2001-M-927-75L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

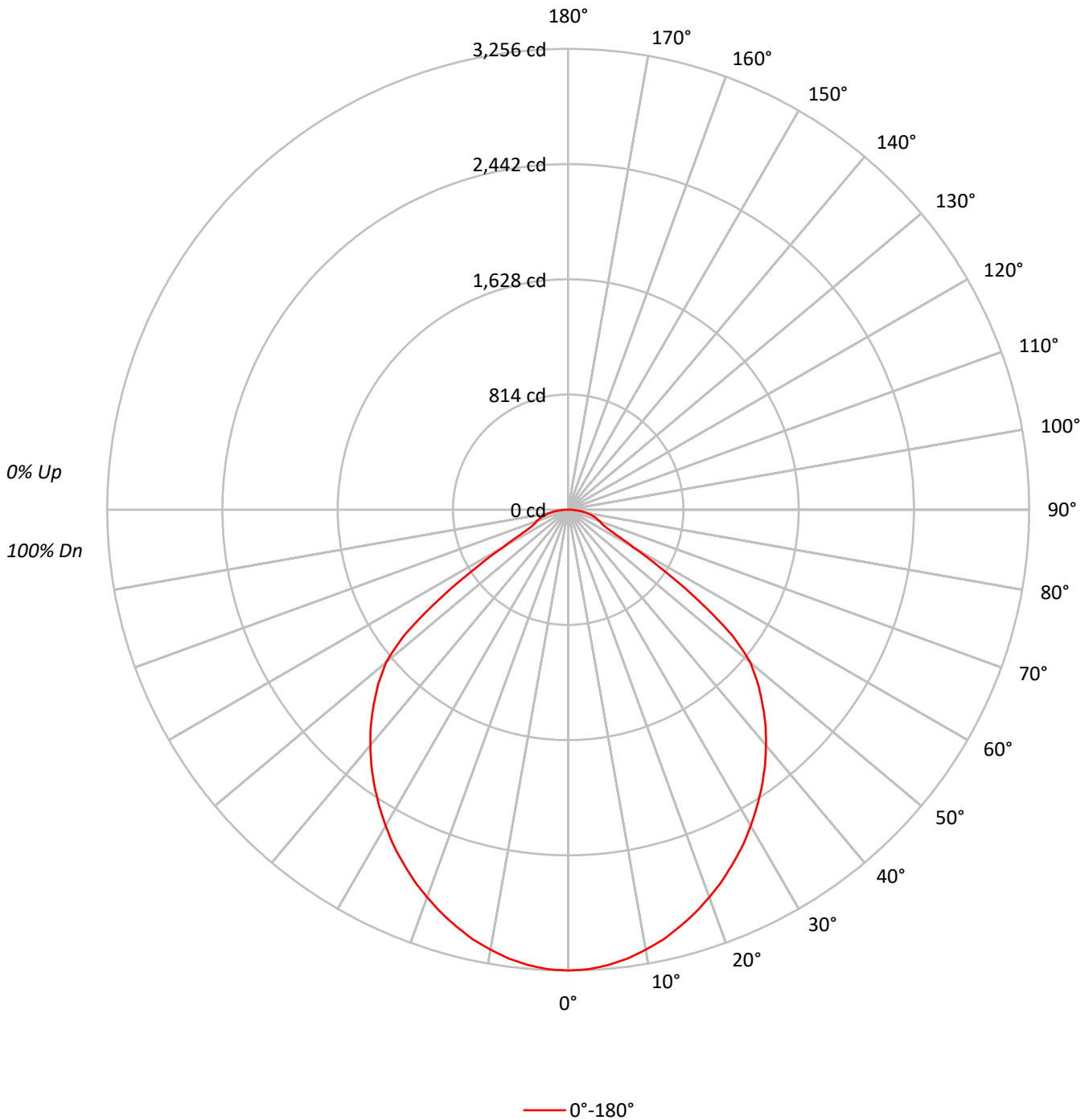
Lumens per Lamp: N/A
Luminaire Lumens: 7012.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	27630
5°	27509
10°	27204
15°	26783
20°	26310
25°	25800
30°	25266
35°	24701
40°	24074
45°	23294
50°	22158
55°	16780
60°	9010
65°	5809
70°	5855
75°	6177
80°	6416
85°	6485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	4.4
10°-20°	859.5	12.3
20°-30°	1269.8	18.1
30°-40°	1491.0	21.3
40°-50°	1494.7	21.3
50°-60°	1000.9	14.3
60°-70°	321.5	4.6
70°-80°	196.6	2.8
80°-90°	72.8	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°	2435.3	34.7
0°-40°	3926.3	56.0
0°-60°	6421.9	91.6
0°-90°	7012.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7012.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3256	
5°	3229	306
15°	3049	860
25°	2756	1270
35°	2384	1491
45°	1941	1495
55°	1134	1001
65°	289	322
75°	188	197
85°	67	73
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3256.0
2.5°	3250.3
5°	3229.3
7.5°	3198.9
10°	3157.0
12.5°	3109.4
15°	3048.6
17.5°	2985.8
20°	2913.4
22.5°	2839.2
25°	2755.5
27.5°	2671.8
30°	2578.5
32.5°	2483.4
35°	2384.4
37.5°	2281.7
40°	2173.2
42.5°	2062.8
45°	1941.0
47.5°	1817.3
50°	1678.4
52.5°	1465.3
55°	1134.2
57.5°	805.0
60°	530.9
62.5°	374.9
65°	289.3
67.5°	255.0
70°	236.0
72.5°	213.1
75°	188.4
77.5°	159.8
80°	131.3
82.5°	100.9
85°	66.6
87.5°	34.3
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	19.81	21.29	20.18	21.60	21.91	19.81	21.29	20.18	21.60	21.91
	3H	20.29	21.60	20.67	21.93	22.29	20.29	21.60	20.67	21.93	22.29
	4H	20.61	21.84	21.01	22.19	22.57	20.61	21.84	21.01	22.19	22.57
	6H	20.94	22.07	21.35	22.43	22.83	20.94	22.07	21.35	22.43	22.83
	8H	21.08	22.15	21.51	22.54	22.94	21.08	22.15	21.51	22.54	22.94
	12H	21.19	22.21	21.62	22.59	23.02	21.19	22.21	21.62	22.59	23.02
4H	2H	19.85	21.07	20.25	21.42	21.80	19.85	21.07	20.25	21.42	21.80
	3H	20.56	21.56	20.97	21.96	22.36	20.56	21.56	20.97	21.96	22.36
	4H	21.03	21.93	21.46	22.34	22.78	21.03	21.93	21.46	22.34	22.78
	6H	21.53	22.31	21.99	22.75	23.21	21.53	22.31	21.99	22.75	23.21
	8H	21.74	22.46	22.20	22.91	23.38	21.74	22.46	22.20	22.91	23.38
	12H	21.91	22.56	22.39	23.04	23.51	21.91	22.56	22.39	23.04	23.51
8H	4H	21.19	21.92	21.66	22.37	22.83	21.19	21.92	21.66	22.37	22.83
	6H	21.82	22.43	22.32	22.92	23.40	21.82	22.43	22.32	22.92	23.40
	8H	22.12	22.67	22.64	23.18	23.67	22.12	22.67	22.64	23.18	23.67
	12H	22.39	22.88	22.90	23.37	23.94	22.39	22.88	22.90	23.37	23.94
12H	4H	21.21	21.86	21.69	22.34	22.81	21.21	21.86	21.69	22.34	22.81
	6H	21.87	22.42	22.38	22.93	23.42	21.87	22.42	22.38	22.93	23.42
	8H	22.23	22.72	22.74	23.21	23.78	22.23	22.72	22.74	23.21	23.78