

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: P866531

Luminaire Tested: PRLX-2004-M-930-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-75L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

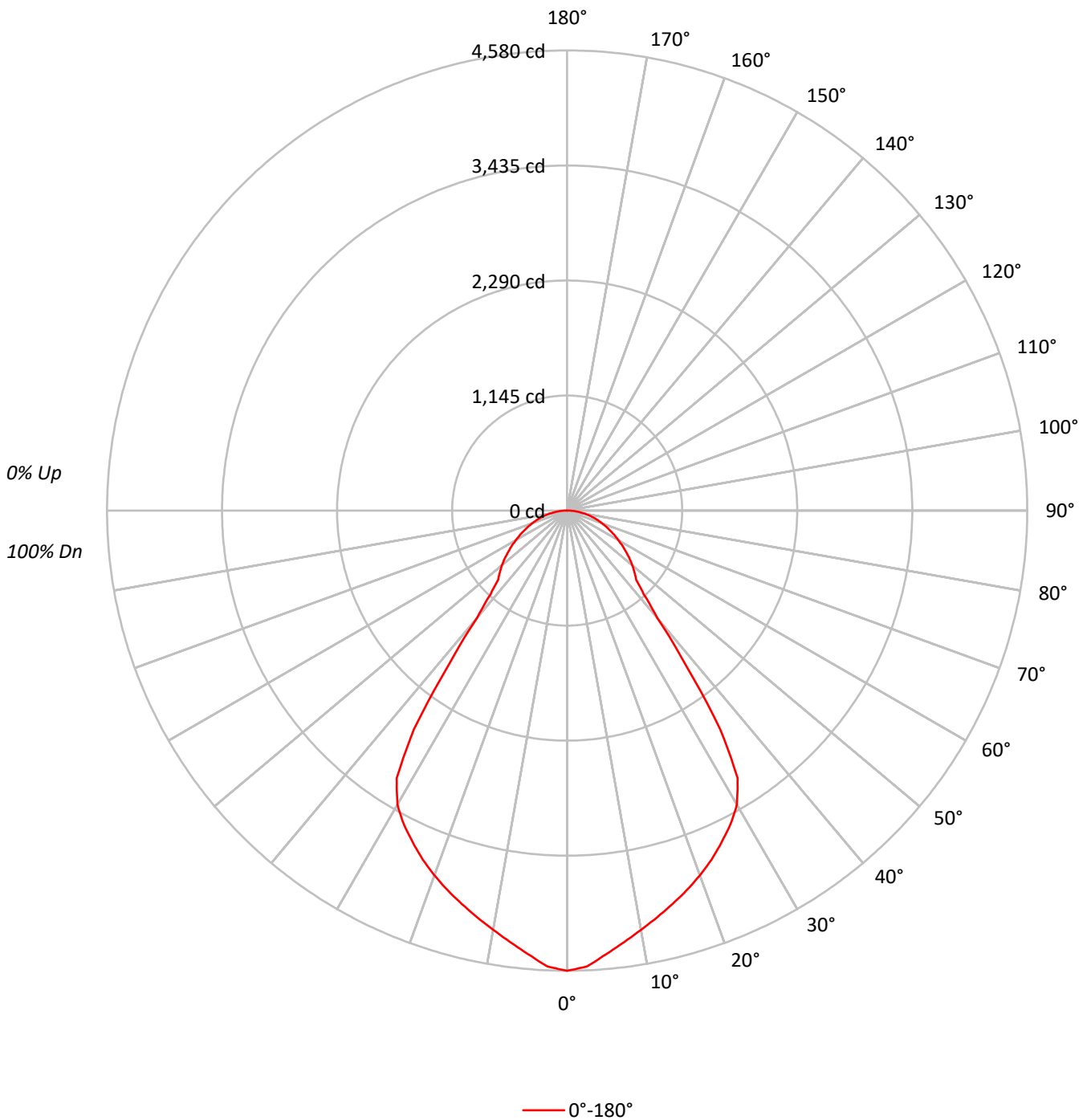
Lumens per Lamp: N/A
Luminaire Lumens: 7091.6 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36437
5°	35397
10°	34227
15°	33385
20°	32712
25°	31956
30°	31042
35°	25805
40°	14522
45°	10929
50°	10493
55°	9933
60°	9364
65°	8900
70°	8583
75°	8339
80°	8132
85°	8015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	5.9
10°-20°	1143.4	16.1
20°-30°	1676.1	23.6
30°-40°	1565.8	22.1
40°-50°	794.1	11.2
50°-60°	641.1	9.0
60°-70°	471.3	6.6
70°-80°	286.8	4.0
80°-90°	95.8	1.4
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°	3236.7	45.6
0°-40°	4802.5	67.7
0°-60°	6237.7	88.0
0°-90°	7091.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7091.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4580	
5°	4432	417
15°	4053	1143
25°	3640	1676
35°	2657	1566
45°	971	794
55°	716	641
65°	473	471
75°	271	287
85°	88	96
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4579.9
2.5°	4542.0
5°	4432.3
7.5°	4332.6
10°	4236.8
12.5°	4145.1
15°	4053.3
17.5°	3961.6
20°	3863.8
22.5°	3758.1
25°	3640.4
27.5°	3520.7
30°	3379.1
32.5°	3155.7
35°	2657.0
37.5°	1936.9
40°	1398.3
42.5°	1127.0
45°	971.4
47.5°	907.6
50°	847.8
52.5°	781.9
55°	716.1
57.5°	652.3
60°	588.5
62.5°	532.6
65°	472.8
67.5°	420.9
70°	369.0
72.5°	319.2
75°	271.3
77.5°	223.4
80°	177.5
82.5°	131.7
85°	87.8
87.5°	43.9
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	18.37	19.73	18.74	20.04	20.35	18.37	19.73	18.74	20.04	20.35
	3H	20.12	21.33	20.49	21.66	22.02	20.12	21.33	20.49	21.66	22.02
	4H	20.82	21.96	21.23	22.31	22.69	20.82	21.96	21.23	22.31	22.69
	6H	21.40	22.44	21.81	22.81	23.21	21.40	22.44	21.81	22.81	23.21
	8H	21.61	22.60	22.04	22.99	23.40	21.61	22.60	22.04	22.99	23.40
	12H	21.77	22.72	22.20	23.10	23.53	21.77	22.72	22.20	23.10	23.53
4H	2H	18.93	20.06	19.33	20.41	20.79	18.93	20.06	19.33	20.41	20.79
	3H	20.90	21.85	21.32	22.25	22.65	20.90	21.85	21.32	22.25	22.65
	4H	21.75	22.60	22.19	23.02	23.46	21.75	22.60	22.19	23.02	23.46
	6H	22.47	23.21	22.93	23.65	24.12	22.47	23.21	22.93	23.65	24.12
	8H	22.74	23.43	23.21	23.87	24.34	22.74	23.43	23.21	23.87	24.34
	12H	22.96	23.57	23.44	24.05	24.52	22.96	23.57	23.44	24.05	24.52
8H	4H	22.06	22.75	22.53	23.19	23.66	22.06	22.75	22.53	23.19	23.66
	6H	22.93	23.50	23.43	23.99	24.47	22.93	23.50	23.43	23.99	24.47
	8H	23.29	23.80	23.81	24.31	24.80	23.29	23.80	23.81	24.31	24.80
	12H	23.61	24.06	24.13	24.55	25.12	23.61	24.06	24.13	24.55	25.12
12H	4H	22.09	22.70	22.58	23.18	23.66	22.09	22.70	22.58	23.18	23.66
	6H	23.00	23.51	23.52	24.02	24.51	23.00	23.51	23.52	24.02	24.51
	8H	23.43	23.88	23.94	24.37	24.94	23.43	23.88	23.94	24.37	24.94