

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: P865959

Luminaire Tested: PRLX-2001-M-930-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-07L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

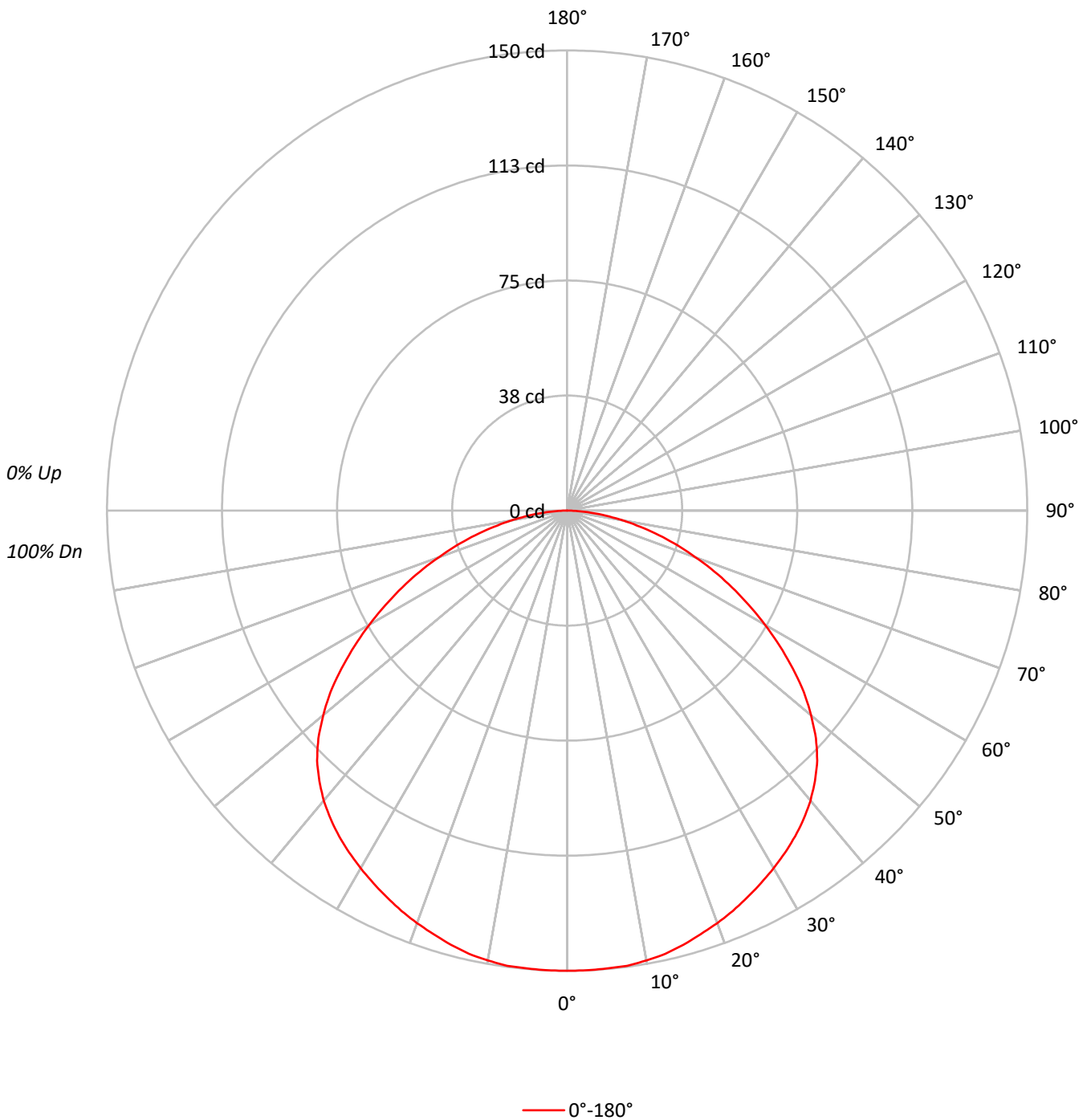
Lumens per Lamp: N/A
Luminaire Lumens: 470.3 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1273
5°	1276
10°	1283
15°	1287
20°	1292
25°	1302
30°	1319
35°	1343
40°	1367
45°	1384
50°	1370
55°	1329
60°	1264
65°	1191
70°	1104
75°	1016
80°	899
85°	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	3.0
10°-20°	41.4	8.8
20°-30°	64.2	13.7
30°-40°	81.1	17.3
40°-50°	88.6	18.8
50°-60°	80.1	17.0
60°-70°	58.8	12.5
70°-80°	32.8	7.0
80°-90°	8.9	1.9
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°	119.9	25.5
0°-40°	201.0	42.7
0°-60°	369.7	78.6
0°-90°	470.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	150	
5°	150	14
15°	146	41
25°	139	64
35°	130	81
45°	115	89
55°	90	80
65°	59	59
75°	31	33
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	150.0
2.5°	150.0
5°	149.8
7.5°	149.7
10°	148.9
12.5°	148.0
15°	146.5
17.5°	144.8
20°	143.1
22.5°	141.2
25°	139.1
27.5°	136.9
30°	134.6
32.5°	132.2
35°	129.6
37.5°	126.7
40°	123.4
42.5°	119.6
45°	115.3
47.5°	110.0
50°	103.8
52.5°	97.3
55°	89.8
57.5°	82.2
60°	74.5
62.5°	66.8
65°	59.3
67.5°	52.0
70°	44.5
72.5°	37.7
75°	31.0
77.5°	24.4
80°	18.4
82.5°	12.8
85°	7.5
87.5°	3.4
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	13.23	14.90	13.60	15.21	15.53	13.23	14.90	13.60	15.21	15.53
	3H	14.93	16.43	15.30	16.76	17.12	14.93	16.43	15.30	16.76	17.12
	4H	15.55	16.97	15.95	17.32	17.69	15.55	16.97	15.95	17.32	17.69
	6H	16.01	17.32	16.42	17.69	18.08	16.01	17.32	16.42	17.69	18.08
	8H	16.15	17.41	16.58	17.80	18.20	16.15	17.41	16.58	17.80	18.20
	12H	16.24	17.45	16.67	17.83	18.26	16.24	17.45	16.67	17.83	18.26
4H	2H	13.84	15.25	14.23	15.60	15.98	13.84	15.25	14.23	15.60	15.98
	3H	15.75	16.94	16.16	17.33	17.73	15.75	16.94	16.16	17.33	17.73
	4H	16.50	17.58	16.93	17.99	18.43	16.50	17.58	16.93	17.99	18.43
	6H	17.08	18.03	17.54	18.47	18.92	17.08	18.03	17.54	18.47	18.92
	8H	17.28	18.16	17.73	18.60	19.06	17.28	18.16	17.73	18.60	19.06
	12H	17.41	18.20	17.89	18.68	19.14	17.41	18.20	17.89	18.68	19.14
8H	4H	16.80	17.68	17.26	18.12	18.59	16.80	17.68	17.26	18.12	18.59
	6H	17.50	18.23	17.99	18.72	19.19	17.50	18.23	17.99	18.72	19.19
	8H	17.76	18.42	18.27	18.92	19.41	17.76	18.42	18.27	18.92	19.41
	12H	17.96	18.54	18.46	19.03	19.59	17.96	18.54	18.46	19.03	19.59
12H	4H	16.83	17.63	17.31	18.10	18.57	16.83	17.63	17.31	18.10	18.57
	6H	17.55	18.21	18.06	18.71	19.20	17.55	18.21	18.06	18.71	19.20
	8H	17.86	18.45	18.37	18.94	19.50	17.86	18.45	18.37	18.94	19.50