

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: P865795

Luminaire Tested: PRLX-2004-S-930-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-930-15L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

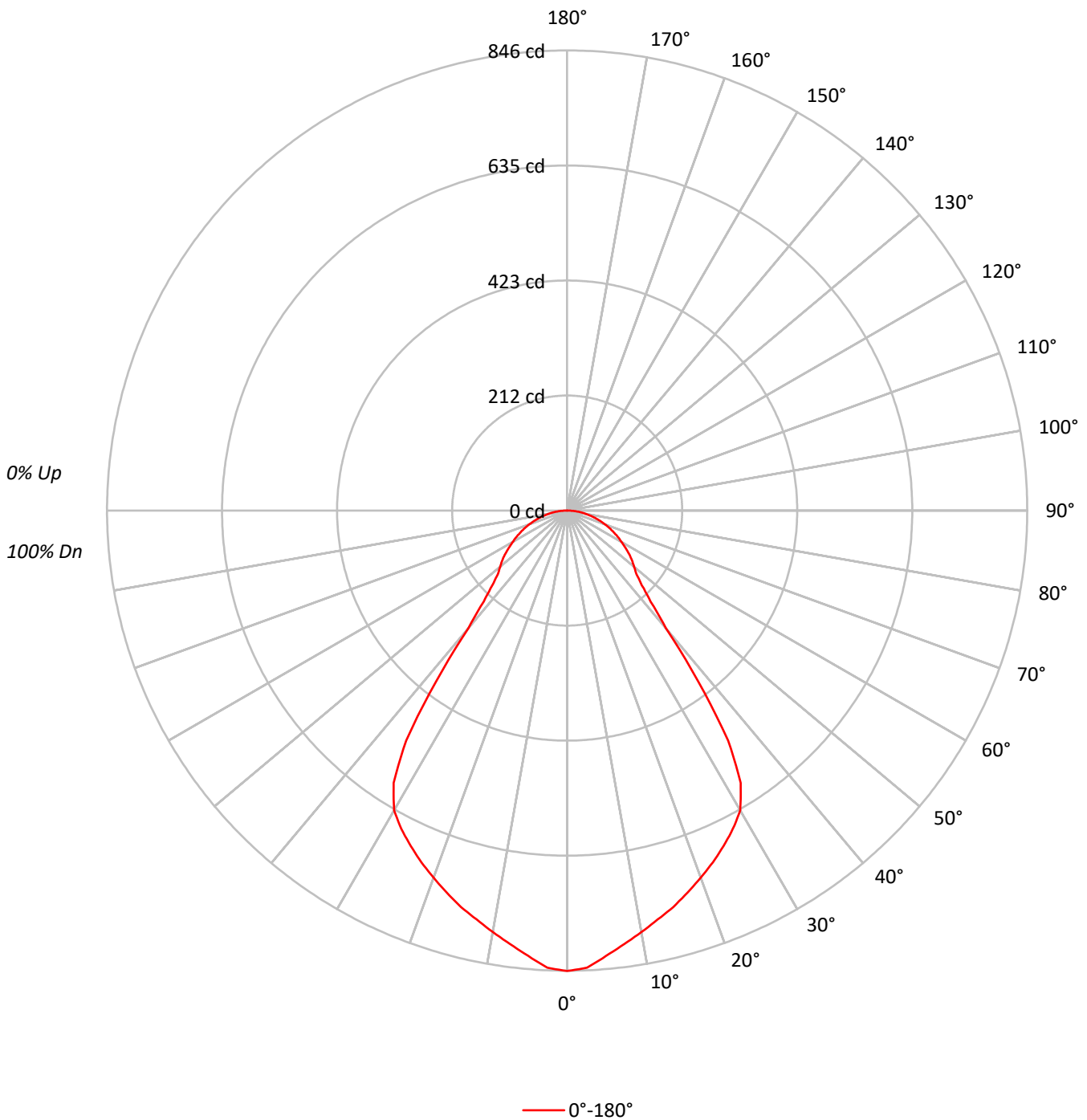
Lumens per Lamp: N/A
Luminaire Lumens: 1357.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13805
5°	13455
10°	13031
15°	12738
20°	12464
25°	12246
30°	11987
35°	10272
40°	6017
45°	4484
50°	4078
55°	3944
60°	3764
65°	3651
70°	3524
75°	3428
80°	3287
85°	3163

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	5.7
10°-20°	212.5	15.7
20°-30°	313.4	23.1
30°-40°	304.0	22.4
40°-50°	156.6	11.5
50°-60°	123.9	9.1
60°-70°	93.7	6.9
70°-80°	57.1	4.2
80°-90°	18.5	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°	603.3	44.5
0°-40°	907.3	66.9
0°-60°	1187.8	87.5
0°-90°	1357.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	846	
5°	822	77
15°	754	213
25°	680	313
35°	516	304
45°	194	157
55°	139	124
65°	95	94
75°	54	57
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	846.4
2.5°	841.3
5°	821.8
7.5°	803.7
10°	786.8
12.5°	770.0
15°	754.4
17.5°	736.3
20°	718.1
22.5°	700.0
25°	680.5
27.5°	659.8
30°	636.5
32.5°	593.7
35°	515.9
37.5°	395.4
40°	282.6
42.5°	226.8
45°	194.4
47.5°	172.4
50°	160.7
52.5°	150.4
55°	138.7
57.5°	127.0
60°	115.4
62.5°	105.0
65°	94.6
67.5°	84.3
70°	73.9
72.5°	63.5
75°	54.4
77.5°	44.1
80°	35.0
82.5°	25.9
85°	16.9
87.5°	7.8
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	15.23	16.60	15.60	16.91	17.22	15.23	16.60	15.60	16.91	17.22
	3H	17.06	18.28	17.44	18.61	18.97	17.06	18.28	17.44	18.61	18.97
	4H	17.79	18.93	18.19	19.28	19.66	17.79	18.93	18.19	19.28	19.66
	6H	18.36	19.41	18.77	19.78	20.18	18.36	19.41	18.77	19.78	20.18
	8H	18.57	19.57	19.00	19.96	20.37	18.57	19.57	19.00	19.96	20.37
	12H	18.72	19.68	19.15	20.06	20.49	18.72	19.68	19.15	20.06	20.49
4H	2H	15.82	16.97	16.23	17.32	17.70	15.82	16.97	16.23	17.32	17.70
	3H	17.87	18.82	18.28	19.23	19.63	17.87	18.82	18.28	19.23	19.63
	4H	18.74	19.60	19.17	20.01	20.46	18.74	19.60	19.17	20.01	20.46
	6H	19.45	20.20	19.91	20.64	21.11	19.45	20.20	19.91	20.64	21.11
	8H	19.72	20.41	20.19	20.86	21.33	19.72	20.41	20.19	20.86	21.33
	12H	19.92	20.54	20.41	21.02	21.50	19.92	20.54	20.41	21.02	21.50
8H	4H	19.05	19.75	19.52	20.19	20.66	19.05	19.75	19.52	20.19	20.66
	6H	19.91	20.49	20.41	20.98	21.46	19.91	20.49	20.41	20.98	21.46
	8H	20.27	20.78	20.79	21.30	21.79	20.27	20.78	20.79	21.30	21.79
	12H	20.58	21.03	21.09	21.52	22.09	20.58	21.03	21.09	21.52	22.09
12H	4H	19.08	19.70	19.57	20.18	20.66	19.08	19.70	19.57	20.18	20.66
	6H	19.98	20.49	20.50	21.01	21.50	19.98	20.49	20.50	21.01	21.50
	8H	20.41	20.86	20.92	21.35	21.92	20.41	20.86	20.92	21.35	21.92