

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: P867267

Luminaire Tested: PRLX-2004-L-930-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-930-15L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

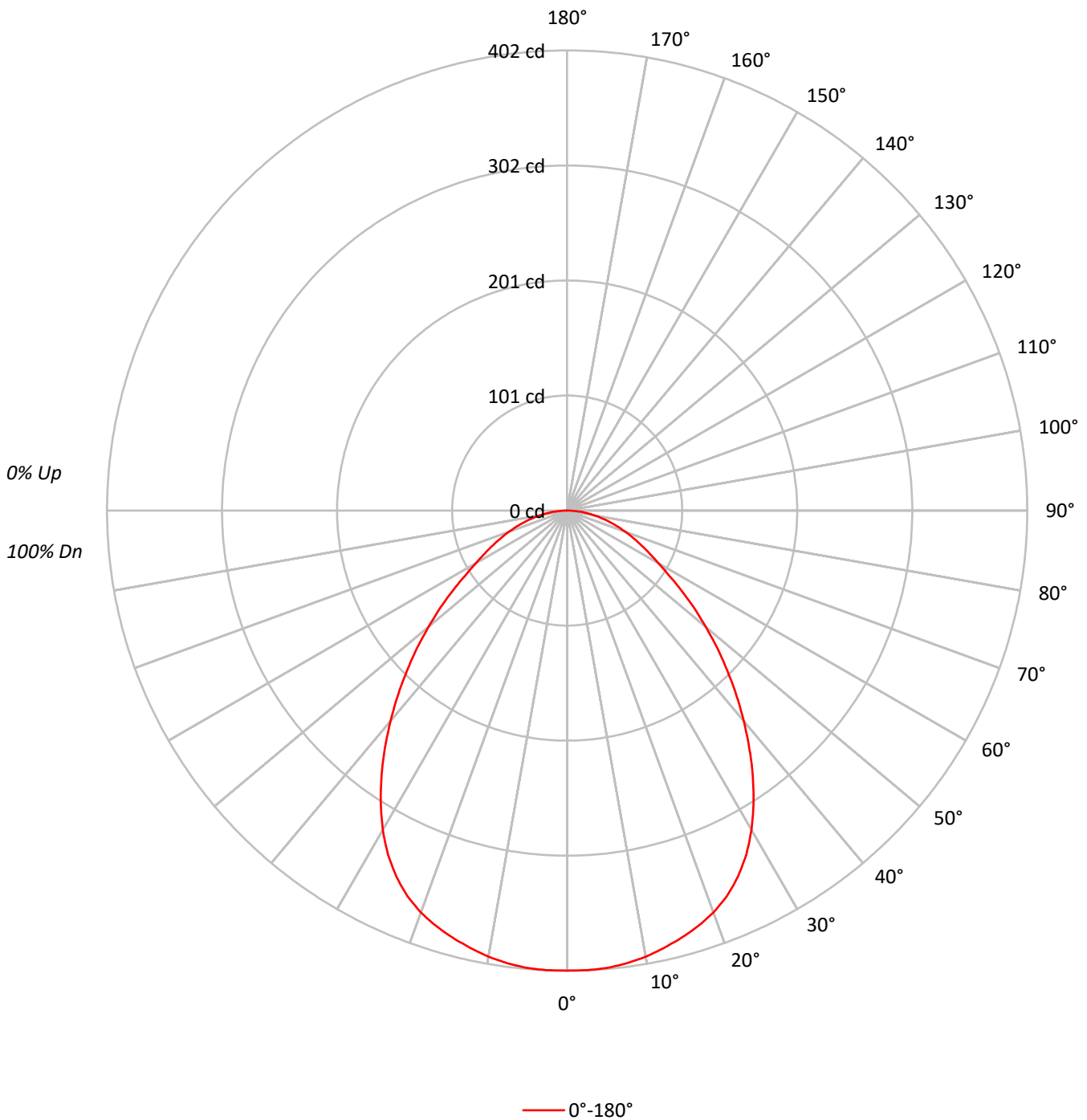
Lumens per Lamp: N/A
Luminaire Lumens: 872.5 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: 0.5 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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80		85	81	78		82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68		76	71	67		74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60		69	63	59		67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52		63	57	52		61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38		49	42	38		47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32		42	36	31		41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1983
5°	1987
10°	1982
15°	1973
20°	1962
25°	1922
30°	1835
35°	1703
40°	1546
45°	1380
50°	1213
55°	1048
60°	909
65°	835
70°	779
75°	730
80°	690
85°	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	4.4
10°-20°	109.0	12.5
20°-30°	161.8	18.5
30°-40°	176.2	20.2
40°-50°	152.8	17.5
50°-60°	109.8	12.6
60°-70°	71.2	8.2
70°-80°	40.8	4.7
80°-90°	12.8	1.5
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°	308.9	35.4
0°-40°	485.1	55.6
0°-60°	747.7	85.7
0°-90°	872.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	402	
5°	401	38
15°	386	109
25°	353	162
35°	283	176
45°	198	153
55°	122	110
65°	72	71
75°	38	41
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	401.9
2.5°	401.9
5°	401.1
7.5°	399.0
10°	395.7
12.5°	391.3
15°	386.3
17.5°	380.6
20°	373.6
22.5°	364.6
25°	353.0
27.5°	338.9
30°	322.1
32.5°	303.1
35°	282.8
37.5°	261.4
40°	240.0
42.5°	218.9
45°	197.8
47.5°	177.8
50°	158.0
52.5°	139.8
55°	121.8
57.5°	105.5
60°	92.1
62.5°	81.1
65°	71.5
67.5°	62.3
70°	54.0
72.5°	45.9
75°	38.3
77.5°	31.2
80°	24.3
82.5°	17.7
85°	11.5
87.5°	5.6
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	11.13	12.63	11.50	12.94	13.26	11.13	12.63	11.50	12.94	13.26
	3H	12.64	13.99	13.02	14.32	14.68	12.64	13.99	13.02	14.32	14.68
	4H	13.24	14.50	13.64	14.85	15.23	13.24	14.50	13.64	14.85	15.23
	6H	13.72	14.89	14.13	15.25	15.65	13.72	14.89	14.13	15.25	15.65
	8H	13.89	15.00	14.32	15.39	15.79	13.89	15.00	14.32	15.39	15.79
	12H	14.01	15.08	14.44	15.46	15.89	14.01	15.08	14.44	15.46	15.89
4H	2H	11.63	12.89	12.03	13.24	13.62	11.63	12.89	12.03	13.24	13.62
	3H	13.38	14.43	13.80	14.83	15.23	13.38	14.43	13.80	14.83	15.23
	4H	14.12	15.06	14.55	15.48	15.92	14.12	15.06	14.55	15.48	15.92
	6H	14.74	15.56	15.20	16.00	16.46	14.74	15.56	15.20	16.00	16.46
	8H	14.96	15.73	15.42	16.17	16.64	14.96	15.73	15.42	16.17	16.64
	12H	15.13	15.82	15.62	16.30	16.77	15.13	15.82	15.62	16.30	16.77
8H	4H	14.40	15.16	14.86	15.61	16.08	14.40	15.16	14.86	15.61	16.08
	6H	15.15	15.78	15.64	16.27	16.75	15.15	15.78	15.64	16.27	16.75
	8H	15.45	16.02	15.97	16.53	17.02	15.45	16.02	15.97	16.53	17.02
	12H	15.71	16.22	16.22	16.71	17.28	15.71	16.22	16.22	16.71	17.28
12H	4H	14.42	15.11	14.91	15.59	16.06	14.42	15.11	14.91	15.59	16.06
	6H	15.20	15.77	15.72	16.28	16.77	15.20	15.77	15.72	16.28	16.77
	8H	15.57	16.08	16.08	16.57	17.13	15.57	16.08	16.08	16.57	17.13