

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: P866519

Luminaire Tested: PRLX-2004-M-930-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-930-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

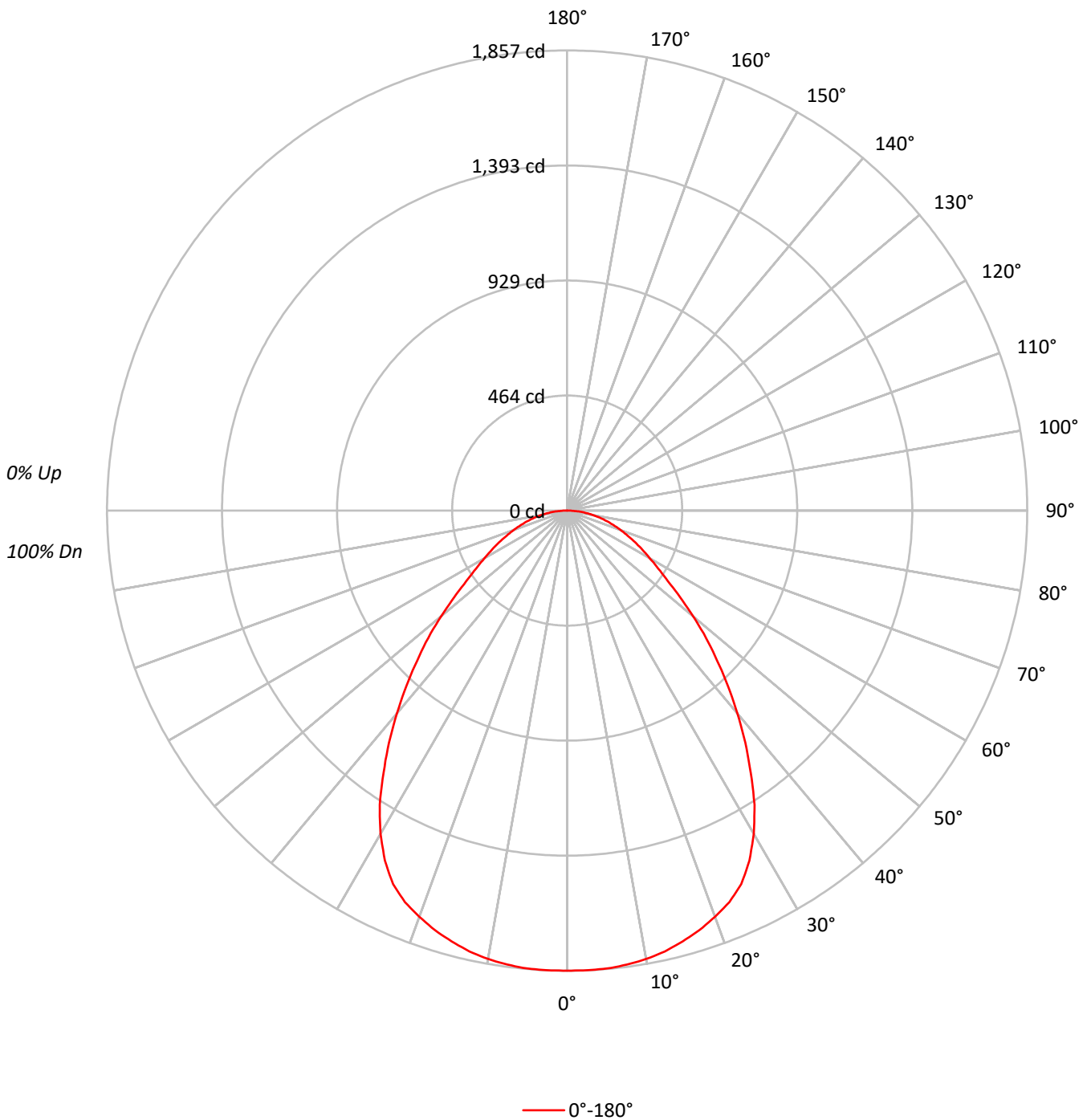
Lumens per Lamp: N/A
Luminaire Lumens: 3899.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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

TEST NUMBER: P866519

CATALOG NUMBER: PRLX-2004-M-930-65L-G-U-S-X-X-WHHR-X

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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14771
5°	14814
10°	14846
15°	14823
20°	14768
25°	14599
30°	13833
35°	12542
40°	11096
45°	9628
50°	8195
55°	6883
60°	6134
65°	5695
70°	5348
75°	5103
80°	4911
85°	4738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	4.5
10°-20°	508.1	13.0
20°-30°	759.4	19.5
30°-40°	806.0	20.7
40°-50°	662.0	17.0
50°-60°	452.9	11.6
60°-70°	301.0	7.7
70°-80°	176.3	4.5
80°-90°	57.4	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°	1443.9	37.0
0°-40°	2249.9	57.7
0°-60°	3364.8	86.3
0°-90°	3899.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1857	
5°	1855	176
15°	1800	508
25°	1663	759
35°	1291	806
45°	856	662
55°	496	453
65°	302	301
75°	166	176
85°	52	57
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1856.7
2.5°	1856.7
5°	1855.0
7.5°	1848.1
10°	1837.7
12.5°	1822.1
15°	1799.7
17.5°	1775.5
20°	1744.3
22.5°	1709.8
25°	1663.1
27.5°	1592.2
30°	1505.8
32.5°	1407.2
35°	1291.4
37.5°	1180.8
40°	1068.4
42.5°	959.5
45°	855.7
47.5°	760.7
50°	662.1
52.5°	574.0
55°	496.2
57.5°	435.7
60°	385.5
62.5°	342.3
65°	302.5
67.5°	264.5
70°	229.9
72.5°	197.1
75°	166.0
77.5°	136.6
80°	107.2
82.5°	79.5
85°	51.9
87.5°	25.9
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	17.48	18.96	17.85	19.27	19.59	17.48	18.96	17.85	19.27	19.59
	3H	19.07	20.39	19.44	20.72	21.08	19.07	20.39	19.44	20.72	21.08
	4H	19.71	20.94	20.11	21.29	21.67	19.71	20.94	20.11	21.29	21.67
	6H	20.23	21.37	20.64	21.74	22.13	20.23	21.37	20.64	21.74	22.13
	8H	20.42	21.51	20.85	21.90	22.30	20.42	21.51	20.85	21.90	22.30
	12H	20.56	21.60	20.99	21.98	22.41	20.56	21.60	20.99	21.98	22.41
4H	2H	18.01	19.25	18.41	19.60	19.98	18.01	19.25	18.41	19.60	19.98
	3H	19.83	20.86	20.24	21.26	21.66	19.83	20.86	20.24	21.26	21.66
	4H	20.61	21.54	21.04	21.95	22.39	20.61	21.54	21.04	21.95	22.39
	6H	21.28	22.08	21.73	22.52	22.99	21.28	22.08	21.73	22.52	22.99
	8H	21.52	22.28	21.99	22.72	23.19	21.52	22.28	21.99	22.72	23.19
	12H	21.72	22.39	22.20	22.87	23.34	21.72	22.39	22.20	22.87	23.34
8H	4H	20.90	21.66	21.37	22.10	22.57	20.90	21.66	21.37	22.10	22.57
	6H	21.71	22.33	22.21	22.82	23.30	21.71	22.33	22.21	22.82	23.30
	8H	22.04	22.61	22.56	23.12	23.60	22.04	22.61	22.56	23.12	23.60
	12H	22.33	22.83	22.85	23.32	23.89	22.33	22.83	22.85	23.32	23.89
12H	4H	20.93	21.61	21.42	22.09	22.56	20.93	21.61	21.42	22.09	22.56
	6H	21.77	22.33	22.29	22.84	23.33	21.77	22.33	22.29	22.84	23.33
	8H	22.17	22.67	22.68	23.16	23.73	22.17	22.67	22.68	23.16	23.73