

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: P866499

Luminaire Tested: PRLX-2004-M-930-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866499
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-930-35L-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 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

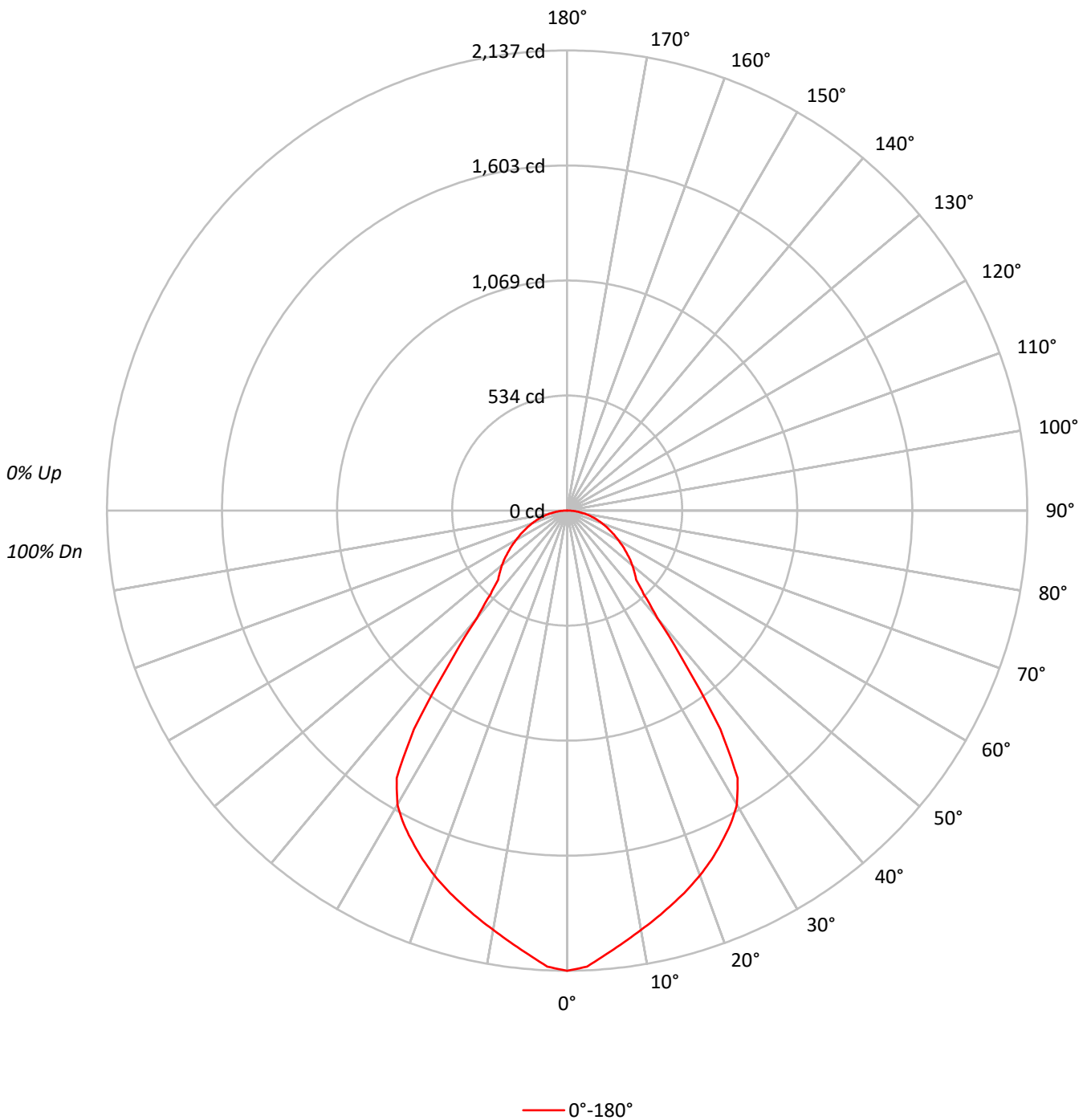
Lumens per Lamp: N/A
Luminaire Lumens: 3309.4 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	17004
5°	16519
10°	15973
15°	15580
20°	15266
25°	14913
30°	14486
35°	12042
40°	6777
45°	5100
50°	4896
55°	4636
60°	4369
65°	4153
70°	4006
75°	3892
80°	3794
85°	3743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	5.9
10°-20°	533.6	16.1
20°-30°	782.2	23.6
30°-40°	730.7	22.1
40°-50°	370.6	11.2
50°-60°	299.2	9.0
60°-70°	219.9	6.6
70°-80°	133.8	4.0
80°-90°	44.7	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°	1510.5	45.6
0°-40°	2241.2	67.7
0°-60°	2910.9	88.0
0°-90°	3309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2137	
5°	2068	195
15°	1892	534
25°	1699	782
35°	1240	731
45°	453	371
55°	334	299
65°	221	220
75°	127	134
85°	41	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2137.3
2.5°	2119.6
5°	2068.4
7.5°	2021.9
10°	1977.2
12.5°	1934.4
15°	1891.6
17.5°	1848.7
20°	1803.1
22.5°	1753.8
25°	1698.9
27.5°	1643.0
30°	1576.9
32.5°	1472.7
35°	1239.9
37.5°	903.9
40°	652.5
42.5°	525.9
45°	453.3
47.5°	423.6
50°	395.6
52.5°	364.9
55°	334.2
57.5°	304.4
60°	274.6
62.5°	248.5
65°	220.6
67.5°	196.4
70°	172.2
72.5°	148.9
75°	126.6
77.5°	104.3
80°	82.8
82.5°	61.4
85°	41.0
87.5°	20.5
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	15.73	17.08	16.09	17.39	17.71	15.73	17.08	16.09	17.39	17.71
	3H	17.47	18.68	17.85	19.01	19.37	17.47	18.68	17.85	19.01	19.37
	4H	18.17	19.31	18.58	19.66	20.04	18.17	19.31	18.58	19.66	20.04
	6H	18.75	19.80	19.16	20.16	20.56	18.75	19.80	19.16	20.16	20.56
	8H	18.96	19.95	19.39	20.34	20.75	18.96	19.95	19.39	20.34	20.75
	12H	19.12	20.07	19.55	20.45	20.88	19.12	20.07	19.55	20.45	20.88
4H	2H	16.28	17.41	16.68	17.76	18.15	16.28	17.41	16.68	17.76	18.15
	3H	18.26	19.20	18.67	19.60	20.00	18.26	19.20	18.67	19.60	20.00
	4H	19.10	19.95	19.54	20.37	20.81	19.10	19.95	19.54	20.37	20.81
	6H	19.82	20.56	20.29	21.01	21.47	19.82	20.56	20.29	21.01	21.47
	8H	20.09	20.78	20.56	21.23	21.70	20.09	20.78	20.56	21.23	21.70
	12H	20.31	20.92	20.79	21.40	21.87	20.31	20.92	20.79	21.40	21.87
8H	4H	19.41	20.10	19.88	20.55	21.02	19.41	20.10	19.88	20.55	21.02
	6H	20.28	20.85	20.78	21.34	21.82	20.28	20.85	20.78	21.34	21.82
	8H	20.65	21.15	21.17	21.66	22.16	20.65	21.15	21.17	21.66	22.16
	12H	20.96	21.41	21.48	21.90	22.47	20.96	21.41	21.48	21.90	22.47
12H	4H	19.44	20.05	19.93	20.54	21.01	19.44	20.05	19.93	20.54	21.01
	6H	20.35	20.86	20.87	21.37	21.86	20.35	20.86	20.87	21.37	21.86
	8H	20.78	21.23	21.30	21.72	22.29	20.78	21.23	21.30	21.72	22.29