

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: P866435

Luminaire Tested: PRLX-2004-M-927-35L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866435
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-927-35L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

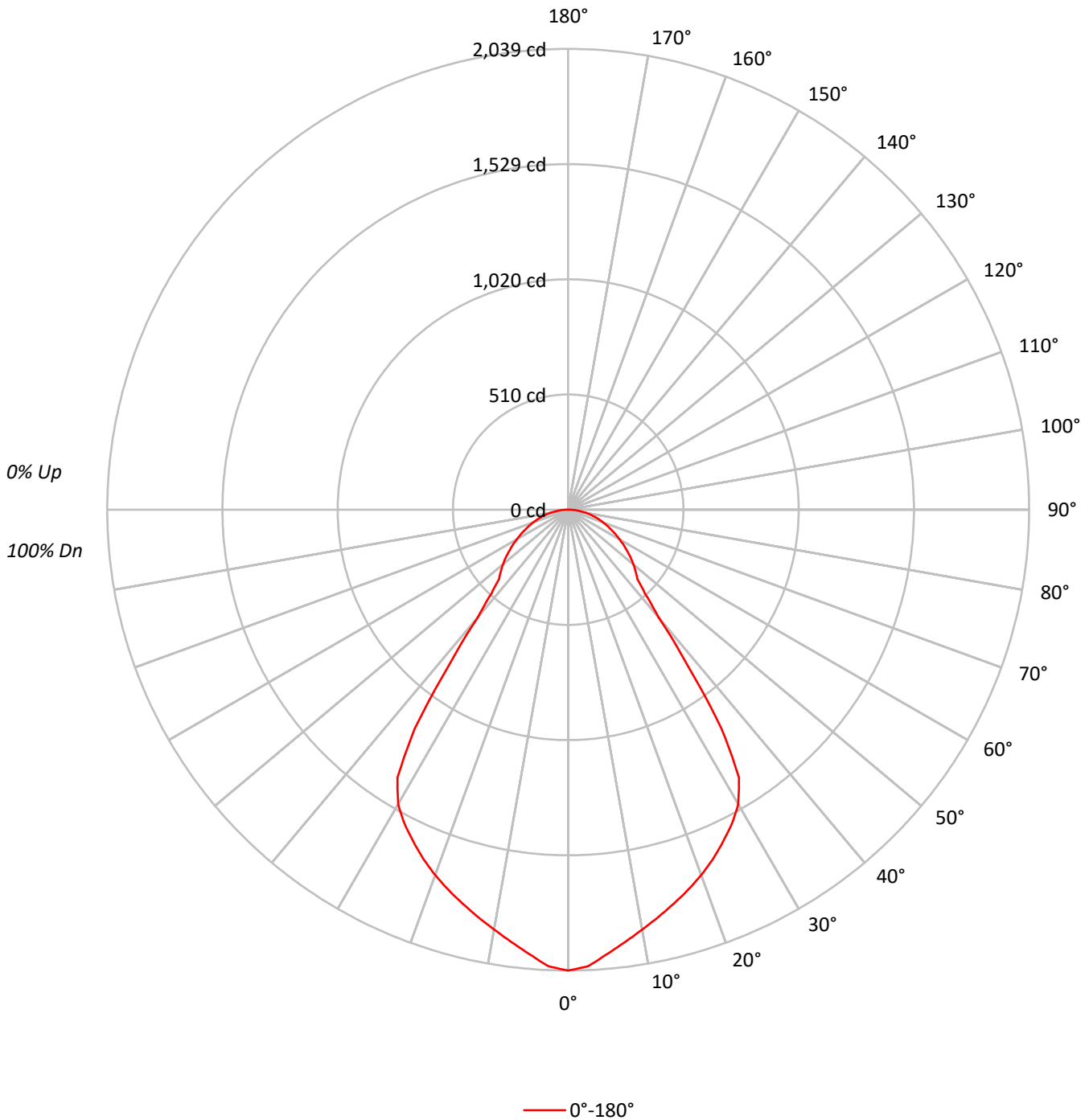
Lumens per Lamp: N/A
Luminaire Lumens: 3157.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	16222
5°	15759
10°	15238
15°	14863
20°	14564
25°	14227
30°	13820
35°	11489
40°	6465
45°	4866
50°	4671
55°	4422
60°	4169
65°	3963
70°	3822
75°	3713
80°	3619
85°	3569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	5.9
10°-20°	509.0	16.1
20°-30°	746.2	23.6
30°-40°	697.1	22.1
40°-50°	353.5	11.2
50°-60°	285.4	9.0
60°-70°	209.9	6.6
70°-80°	127.7	4.0
80°-90°	42.6	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°	1441.0	45.6
0°-40°	2138.1	67.7
0°-60°	2777.0	88.0
0°-90°	3157.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2039	
5°	1973	186
15°	1804	509
25°	1621	746
35°	1183	697
45°	432	354
55°	319	285
65°	210	210
75°	121	128
85°	39	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2039.0
2.5°	2022.1
5°	1973.3
7.5°	1928.8
10°	1886.2
12.5°	1845.4
15°	1804.5
17.5°	1763.7
20°	1720.2
22.5°	1673.1
25°	1620.7
27.5°	1567.4
30°	1504.4
32.5°	1404.9
35°	1182.9
37.5°	862.3
40°	622.5
42.5°	501.7
45°	432.5
47.5°	404.1
50°	377.4
52.5°	348.1
55°	318.8
57.5°	290.4
60°	262.0
62.5°	237.1
65°	210.5
67.5°	187.4
70°	164.3
72.5°	142.1
75°	120.8
77.5°	99.5
80°	79.0
82.5°	58.6
85°	39.1
87.5°	19.5
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	15.56	16.91	15.93	17.23	17.54	15.56	16.91	15.93	17.23	17.54
	3H	17.30	18.51	17.68	18.84	19.21	17.30	18.51	17.68	18.84	19.21
	4H	18.01	19.15	18.41	19.50	19.88	18.01	19.15	18.41	19.50	19.88
	6H	18.59	19.63	19.00	20.00	20.40	18.59	19.63	19.00	20.00	20.40
	8H	18.80	19.79	19.23	20.18	20.59	18.80	19.79	19.23	20.18	20.59
	12H	18.96	19.91	19.39	20.29	20.72	18.96	19.91	19.39	20.29	20.72
4H	2H	16.12	17.25	16.52	17.60	17.98	16.12	17.25	16.52	17.60	17.98
	3H	18.09	19.04	18.51	19.44	19.84	18.09	19.04	18.51	19.44	19.84
	4H	18.94	19.79	19.38	20.21	20.65	18.94	19.79	19.38	20.21	20.65
	6H	19.66	20.40	20.12	20.84	21.31	19.66	20.40	20.12	20.84	21.31
	8H	19.93	20.62	20.40	21.06	21.53	19.93	20.62	20.40	21.06	21.53
	12H	20.14	20.75	20.63	21.24	21.71	20.14	20.75	20.63	21.24	21.71
8H	4H	19.25	19.94	19.72	20.38	20.85	19.25	19.94	19.72	20.38	20.85
	6H	20.12	20.68	20.62	21.18	21.66	20.12	20.68	20.62	21.18	21.66
	8H	20.48	20.99	21.00	21.50	21.99	20.48	20.99	21.00	21.50	21.99
	12H	20.80	21.24	21.31	21.74	22.31	20.80	21.24	21.31	21.74	22.31
12H	4H	19.28	19.89	19.77	20.37	20.85	19.28	19.89	19.77	20.37	20.85
	6H	20.19	20.69	20.71	21.21	21.70	20.19	20.69	20.71	21.21	21.70
	8H	20.62	21.06	21.13	21.56	22.13	20.62	21.06	21.13	21.56	22.13