

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: P866539

Luminaire Tested: PRLX-2004-M-935-07L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866539
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-935-07L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

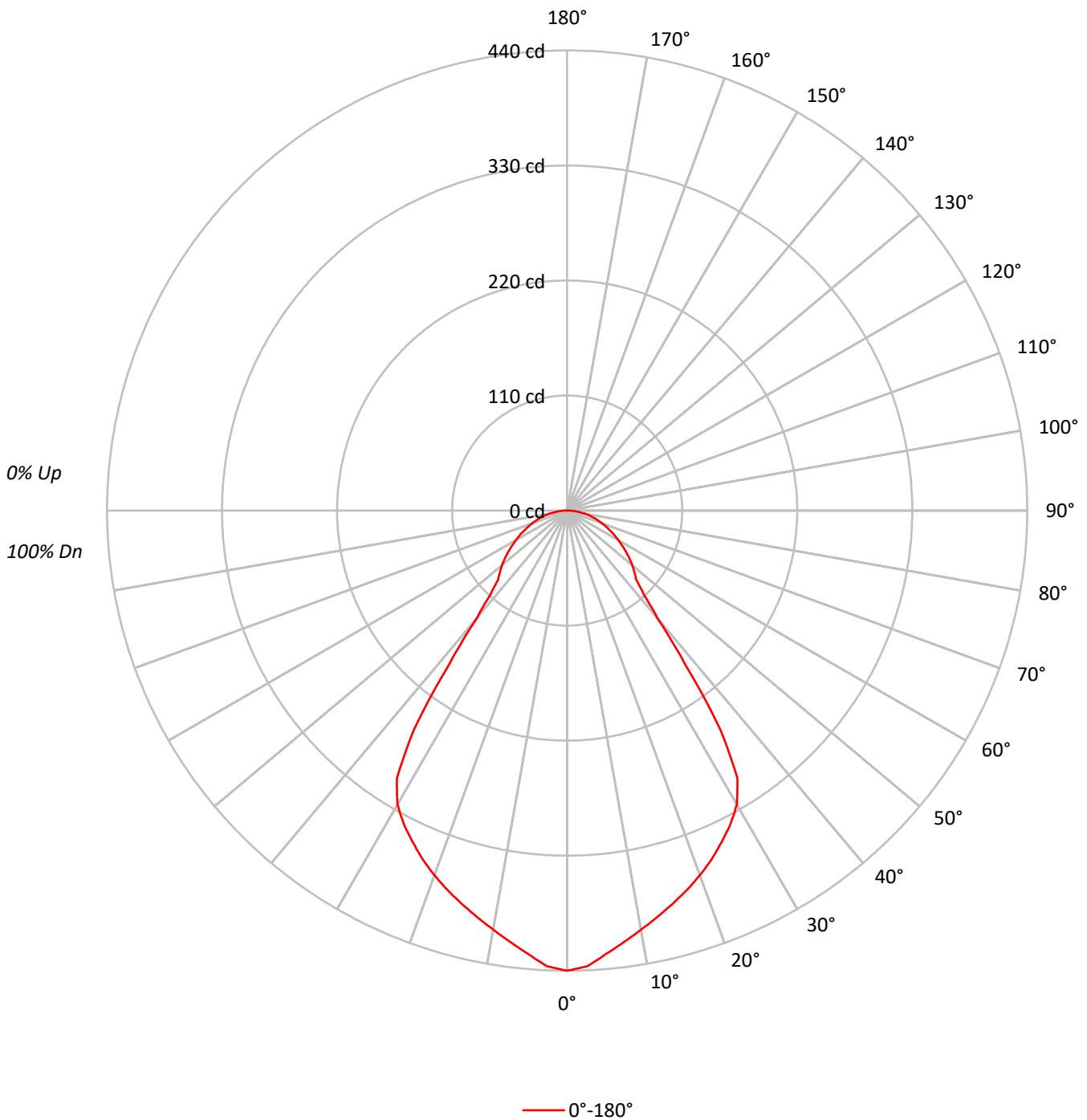
Lumens per Lamp: N/A
Luminaire Lumens: 681.1 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	3500
5°	3400
10°	3287
15°	3206
20°	3142
25°	3069
30°	2981
35°	2479
40°	1395
45°	1050
50°	1007
55°	954
60°	899
65°	855
70°	823
75°	802
80°	783
85°	767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	5.9
10°-20°	109.8	16.1
20°-30°	161.0	23.6
30°-40°	150.4	22.1
40°-50°	76.3	11.2
50°-60°	61.6	9.0
60°-70°	45.3	6.6
70°-80°	27.6	4.0
80°-90°	9.2	1.3
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°	310.8	45.6
0°-40°	461.2	67.7
0°-60°	599.1	88.0
0°-90°	681.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	440	
5°	426	40
15°	389	110
25°	350	161
35°	255	150
45°	93	76
55°	69	62
65°	45	45
75°	26	28
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	439.9
2.5°	436.2
5°	425.7
7.5°	416.1
10°	406.9
12.5°	398.1
15°	389.3
17.5°	380.5
20°	371.1
22.5°	360.9
25°	349.6
27.5°	338.1
30°	324.5
32.5°	303.1
35°	255.2
37.5°	186.0
40°	134.3
42.5°	108.2
45°	93.3
47.5°	87.2
50°	81.4
52.5°	75.1
55°	68.8
57.5°	62.6
60°	56.5
62.5°	51.2
65°	45.4
67.5°	40.4
70°	35.4
72.5°	30.7
75°	26.1
77.5°	21.5
80°	17.1
82.5°	12.6
85°	8.4
87.5°	4.2
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	10.23	11.58	10.59	11.89	12.21	10.23	11.58	10.59	11.89	12.21
	3H	11.97	13.18	12.35	13.51	13.87	11.97	13.18	12.35	13.51	13.87
	4H	12.68	13.81	13.08	14.16	14.55	12.68	13.81	13.08	14.16	14.55
	6H	13.26	14.30	13.67	14.67	15.07	13.26	14.30	13.67	14.67	15.07
	8H	13.47	14.46	13.90	14.85	15.26	13.47	14.46	13.90	14.85	15.26
	12H	13.63	14.58	14.06	14.96	15.39	13.63	14.58	14.06	14.96	15.39
4H	2H	10.78	11.92	11.19	12.27	12.65	10.78	11.92	11.19	12.27	12.65
	3H	12.76	13.70	13.17	14.10	14.51	12.76	13.70	13.17	14.10	14.51
	4H	13.61	14.46	14.05	14.88	15.32	13.61	14.46	14.05	14.88	15.32
	6H	14.34	15.07	14.80	15.52	15.98	14.34	15.07	14.80	15.52	15.98
	8H	14.60	15.29	15.07	15.74	16.21	14.60	15.29	15.07	15.74	16.21
	12H	14.81	15.43	15.30	15.91	16.38	14.81	15.43	15.30	15.91	16.38
8H	4H	13.92	14.61	14.39	15.06	15.53	13.92	14.61	14.39	15.06	15.53
	6H	14.80	15.36	15.30	15.85	16.33	14.80	15.36	15.30	15.85	16.33
	8H	15.16	15.66	15.68	16.18	16.67	15.16	15.66	15.68	16.18	16.67
	12H	15.47	15.92	15.98	16.41	16.98	15.47	15.92	15.98	16.41	16.98
12H	4H	13.95	14.56	14.44	15.05	15.52	13.95	14.56	14.44	15.05	15.52
	6H	14.86	15.37	15.38	15.88	16.37	14.86	15.37	15.38	15.88	16.37
	8H	15.29	15.74	15.81	16.23	16.80	15.29	15.74	15.81	16.23	16.80