

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: P866515

Luminaire Tested: PRLX-2004-M-930-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866515
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-930-55L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

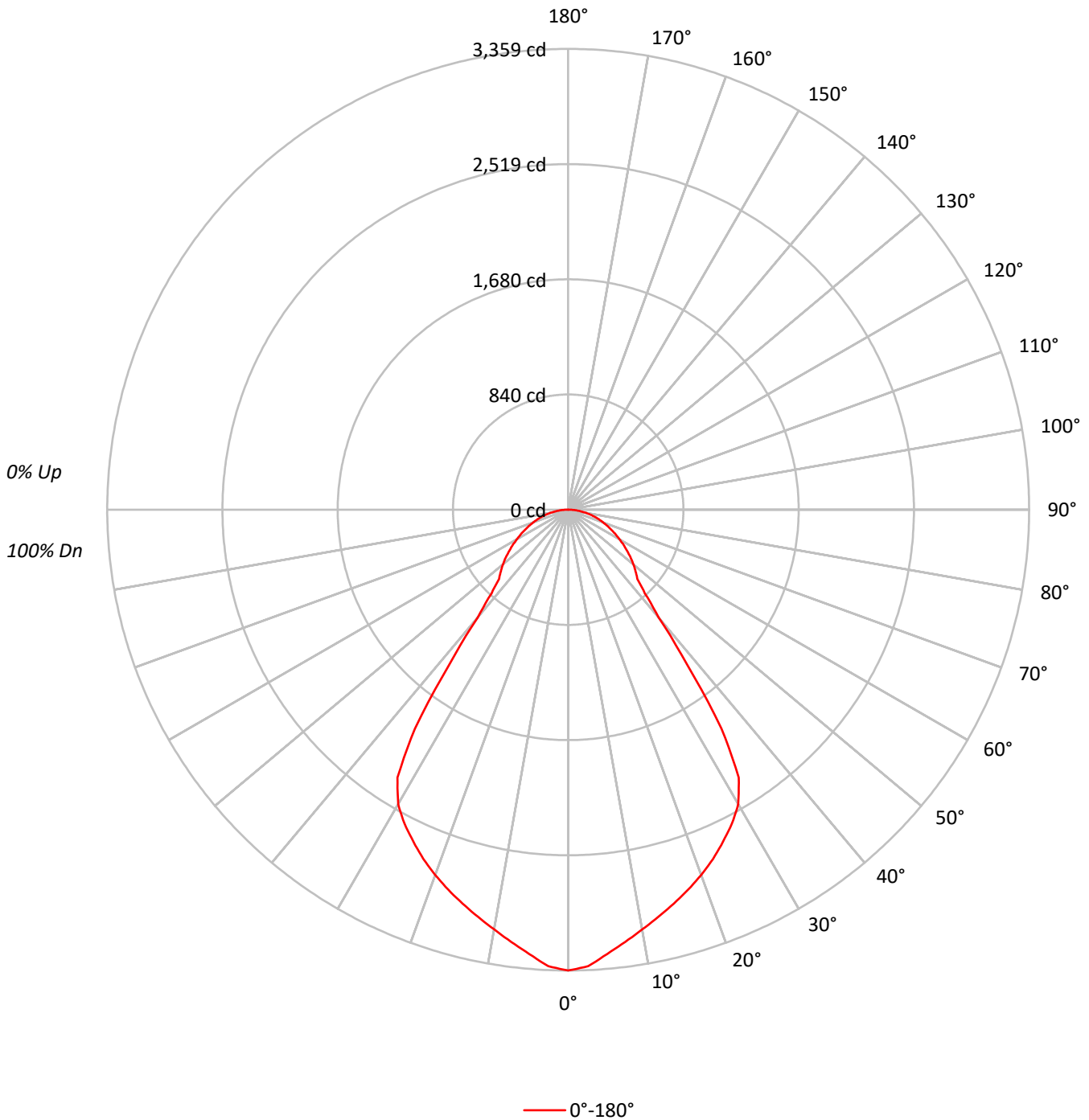
Lumens per Lamp: N/A
Luminaire Lumens: 5200.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	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°	26720
5°	25958
10°	25100
15°	24482
20°	23989
25°	23434
30°	22764
35°	18924
40°	10649
45°	8015
50°	7695
55°	7285
60°	6866
65°	6527
70°	6294
75°	6114
80°	5965
85°	5879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	5.9
10°-20°	838.5	16.1
20°-30°	1229.1	23.6
30°-40°	1148.2	22.1
40°-50°	582.3	11.2
50°-60°	470.2	9.0
60°-70°	345.7	6.6
70°-80°	210.3	4.0
80°-90°	70.3	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°	2373.6	45.6
0°-40°	3521.8	67.7
0°-60°	4574.3	88.0
0°-90°	5200.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3359	
5°	3250	306
15°	2972	839
25°	2670	1229
35°	1948	1148
45°	712	582
55°	525	470
65°	347	346
75°	199	210
85°	64	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3358.6
2.5°	3330.8
5°	3250.4
7.5°	3177.2
10°	3107.0
12.5°	3039.7
15°	2972.4
17.5°	2905.2
20°	2833.5
22.5°	2755.9
25°	2669.6
27.5°	2581.9
30°	2478.0
32.5°	2314.2
35°	1948.5
37.5°	1420.4
40°	1025.4
42.5°	826.5
45°	712.4
47.5°	665.6
50°	621.7
52.5°	573.4
55°	525.2
57.5°	478.3
60°	431.5
62.5°	390.6
65°	346.7
67.5°	308.7
70°	270.6
72.5°	234.1
75°	198.9
77.5°	163.8
80°	130.2
82.5°	96.5
85°	64.4
87.5°	32.2
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	17.30	18.65	17.66	18.96	19.28	17.30	18.65	17.66	18.96	19.28
	3H	19.04	20.25	19.42	20.58	20.94	19.04	20.25	19.42	20.58	20.94
	4H	19.75	20.88	20.15	21.23	21.61	19.75	20.88	20.15	21.23	21.61
	6H	20.32	21.37	20.73	21.73	22.13	20.32	21.37	20.73	21.73	22.13
	8H	20.53	21.52	20.96	21.91	22.32	20.53	21.52	20.96	21.91	22.32
	12H	20.69	21.64	21.12	22.02	22.45	20.69	21.64	21.12	22.02	22.45
4H	2H	17.85	18.98	18.25	19.33	19.72	17.85	18.98	18.25	19.33	19.72
	3H	19.83	20.77	20.24	21.17	21.57	19.83	20.77	20.24	21.17	21.57
	4H	20.67	21.52	21.11	21.94	22.38	20.67	21.52	21.11	21.94	22.38
	6H	21.40	22.13	21.86	22.58	23.04	21.40	22.13	21.86	22.58	23.04
	8H	21.66	22.35	22.13	22.80	23.27	21.66	22.35	22.13	22.80	23.27
	12H	21.88	22.49	22.36	22.97	23.44	21.88	22.49	22.36	22.97	23.44
8H	4H	20.98	21.67	21.45	22.12	22.59	20.98	21.67	21.45	22.12	22.59
	6H	21.85	22.42	22.35	22.91	23.39	21.85	22.42	22.35	22.91	23.39
	8H	22.22	22.72	22.74	23.23	23.73	22.22	22.72	22.74	23.23	23.73
	12H	22.53	22.98	23.05	23.47	24.04	22.53	22.98	23.05	23.47	24.04
12H	4H	21.01	21.62	21.50	22.11	22.58	21.01	21.62	21.50	22.11	22.58
	6H	21.92	22.43	22.44	22.94	23.43	21.92	22.43	22.44	22.94	23.43
	8H	22.35	22.80	22.87	23.29	23.86	22.35	22.80	22.87	23.29	23.86