

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: P866511

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866511
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-930-55L-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 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

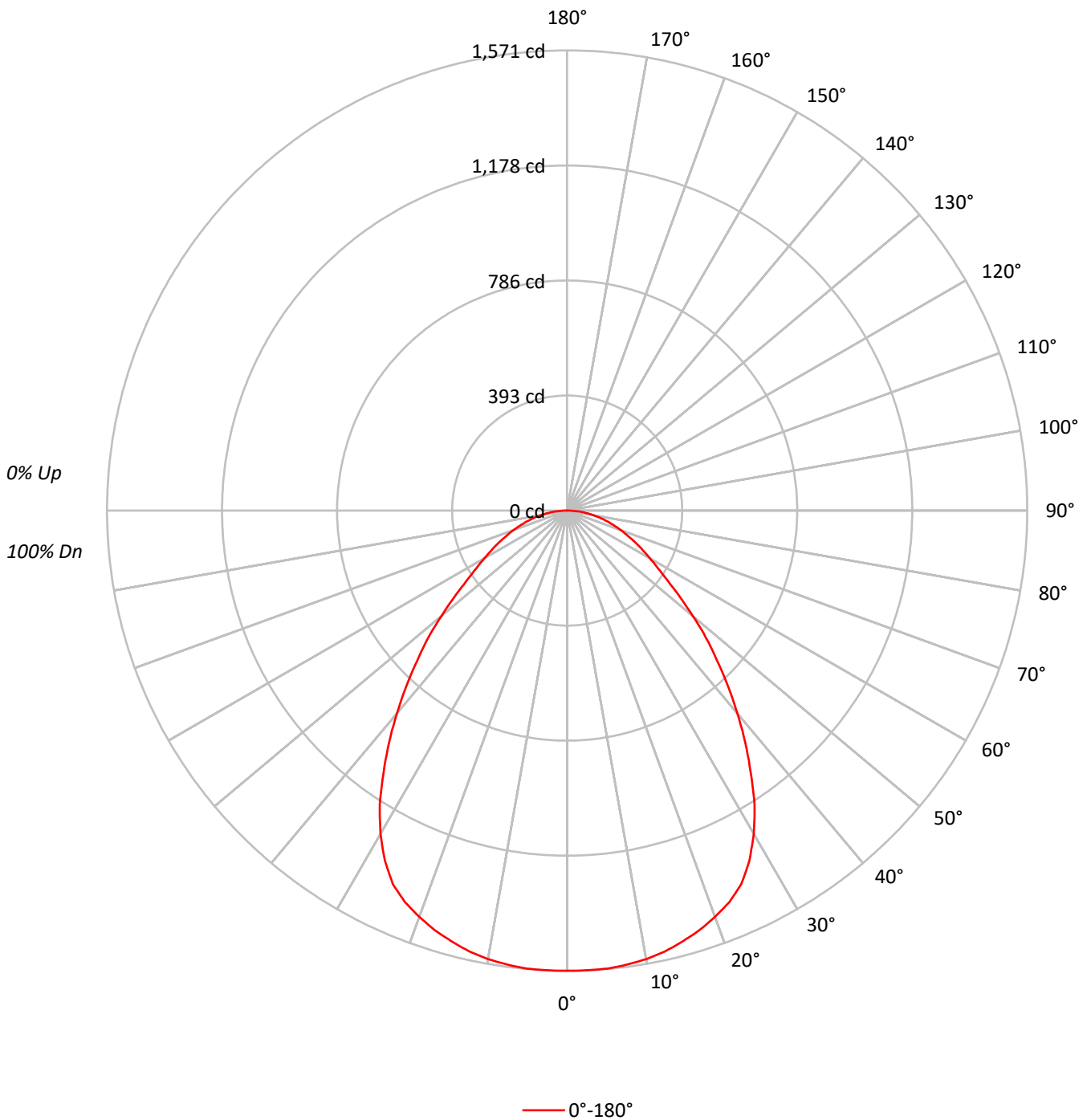
Lumens per Lamp: N/A
Luminaire Lumens: 3299.5 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.2
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	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°	12499
5°	12535
10°	12562
15°	12542
20°	12496
25°	12353
30°	11705
35°	10613
40°	9389
45°	8147
50°	6935
55°	5823
60°	5190
65°	4819
70°	4527
75°	4316
80°	4155
85°	4007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.5
10°-20°	429.9	13.0
20°-30°	642.5	19.5
30°-40°	682.0	20.7
40°-50°	560.1	17.0
50°-60°	383.2	11.6
60°-70°	254.7	7.7
70°-80°	149.1	4.5
80°-90°	48.6	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°	1221.8	37.0
0°-40°	1903.7	57.7
0°-60°	2847.1	86.3
0°-90°	3299.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1571	
5°	1570	149
15°	1523	430
25°	1407	643
35°	1093	682
45°	724	560
55°	420	383
65°	256	255
75°	140	149
85°	44	49
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1571.1
2.5°	1571.1
5°	1569.6
7.5°	1563.7
10°	1555.0
12.5°	1541.8
15°	1522.8
17.5°	1502.3
20°	1476.0
22.5°	1446.7
25°	1407.2
27.5°	1347.3
30°	1274.1
32.5°	1190.7
35°	1092.7
37.5°	999.1
40°	904.0
42.5°	811.9
45°	724.1
47.5°	643.6
50°	560.3
52.5°	485.7
55°	419.8
57.5°	368.6
60°	326.2
62.5°	289.6
65°	256.0
67.5°	223.8
70°	194.6
72.5°	166.8
75°	140.4
77.5°	115.6
80°	90.7
82.5°	67.3
85°	43.9
87.5°	21.9
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	16.90	18.38	17.27	18.69	19.00	16.90	18.38	17.27	18.69	19.00
	3H	18.49	19.81	18.86	20.13	20.50	18.49	19.81	18.86	20.13	20.50
	4H	19.12	20.36	19.53	20.71	21.09	19.12	20.36	19.53	20.71	21.09
	6H	19.65	20.79	20.06	21.16	21.55	19.65	20.79	20.06	21.16	21.55
	8H	19.84	20.93	20.27	21.32	21.72	19.84	20.93	20.27	21.32	21.72
	12H	19.98	21.02	20.41	21.40	21.83	19.98	21.02	20.41	21.40	21.83
4H	2H	17.43	18.67	17.83	19.02	19.40	17.43	18.67	17.83	19.02	19.40
	3H	19.25	20.28	19.66	20.68	21.08	19.25	20.28	19.66	20.68	21.08
	4H	20.03	20.95	20.46	21.37	21.81	20.03	20.95	20.46	21.37	21.81
	6H	20.70	21.50	21.15	21.94	22.41	20.70	21.50	21.15	21.94	22.41
	8H	20.94	21.70	21.41	22.14	22.61	20.94	21.70	21.41	22.14	22.61
	12H	21.14	21.81	21.62	22.29	22.76	21.14	21.81	21.62	22.29	22.76
8H	4H	20.32	21.08	20.79	21.52	21.99	20.32	21.08	20.79	21.52	21.99
	6H	21.13	21.75	21.63	22.24	22.72	21.13	21.75	21.63	22.24	22.72
	8H	21.46	22.02	21.98	22.54	23.02	21.46	22.02	21.98	22.54	23.02
	12H	21.75	22.25	22.26	22.74	23.31	21.75	22.25	22.26	22.74	23.31
12H	4H	20.35	21.03	20.84	21.50	21.98	20.35	21.03	20.84	21.50	21.98
	6H	21.19	21.75	21.71	22.26	22.75	21.19	21.75	21.71	22.26	22.75
	8H	21.59	22.09	22.10	22.58	23.15	21.59	22.09	22.10	22.58	23.15