

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: P867308

Luminaire Tested: PRLX-2004-L-935-117L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-87)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-935-117L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

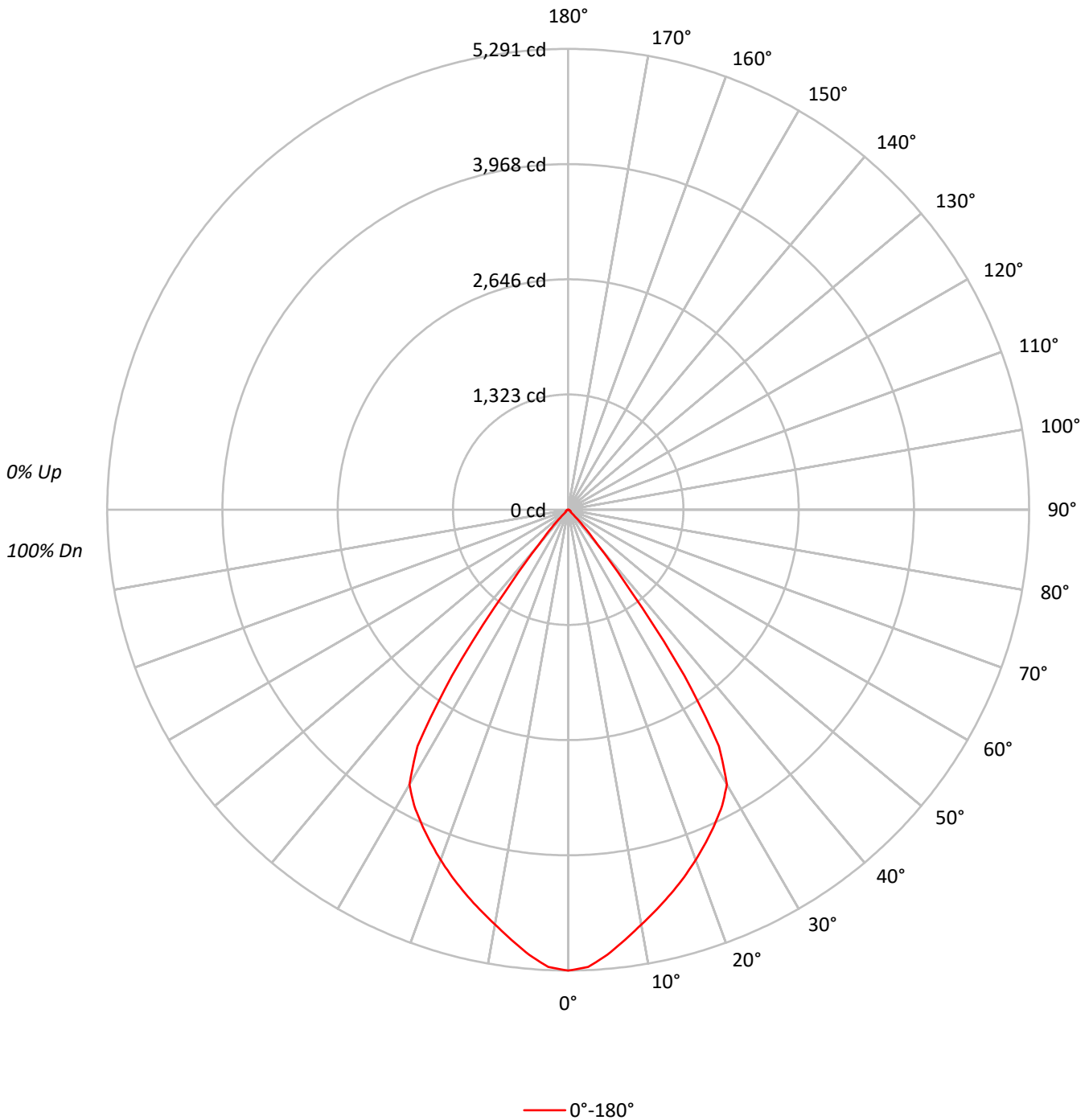
Lumens per Lamp: N/A
Luminaire Lumens: 5139.4 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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: 0.333 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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72		79	75	72		78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67		75	70	67		73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63		70	66	62		69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59		66	62	58		65	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26106
5°	25412
10°	24231
15°	23301
20°	22471
25°	21684
30°	20754
35°	14001
40°	3377
45°	864
50°	303
55°	286
60°	267
65°	243
70°	225
75°	217
80°	207
85°	175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.2	9.3
10°-20°	1284.8	25.0
20°-30°	1831.9	35.6
30°-40°	1340.5	26.1
40°-50°	135.7	2.6
50°-60°	29.8	0.6
60°-70°	20.7	0.4
70°-80°	12.1	0.2
80°-90°	3.8	0.1
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°	3596.9	70.0
0°-40°	4937.4	96.1
0°-60°	5102.8	99.3
0°-90°	5139.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5139.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5291	
5°	5131	480
15°	4562	1285
25°	3983	1832
35°	2325	1340
45°	124	136
55°	33	30
65°	21	21
75°	11	12
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5291.2
2.5°	5254.8
5°	5131.0
7.5°	4981.1
10°	4836.5
12.5°	4699.1
15°	4561.8
17.5°	4423.4
20°	4279.8
22.5°	4131.0
25°	3983.2
27.5°	3828.2
30°	3643.0
32.5°	3217.4
35°	2324.6
37.5°	1182.1
40°	524.4
42.5°	277.8
45°	123.8
47.5°	43.7
50°	39.5
52.5°	36.4
55°	33.3
57.5°	30.2
60°	27.1
62.5°	23.9
65°	20.8
67.5°	17.7
70°	15.6
72.5°	13.5
75°	11.4
77.5°	9.4
80°	7.3
82.5°	5.2
85°	3.1
87.5°	2.1
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.15	0.54	0.00	0.00	0.00	0.15	0.54
	6H	0.00	0.21	0.00	0.59	0.98	0.00	0.21	0.00	0.59	0.98
	8H	0.00	0.32	0.11	0.72	1.13	0.00	0.32	0.11	0.72	1.13
	12H	0.00	0.38	0.20	0.76	1.20	0.00	0.38	0.20	0.76	1.20
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.10	0.51	0.00	0.00	0.00	0.10	0.51
	4H	0.00	0.36	0.25	0.79	1.24	0.00	0.36	0.25	0.79	1.24
	6H	0.43	0.90	0.90	1.35	1.82	0.43	0.90	0.90	1.35	1.82
	8H	0.63	1.06	1.11	1.52	1.99	0.63	1.06	1.11	1.52	1.99
	12H	0.75	1.13	1.25	1.62	2.10	0.75	1.13	1.25	1.62	2.10
8H	4H	0.03	0.46	0.51	0.92	1.39	0.03	0.46	0.51	0.92	1.39
	6H	0.79	1.13	1.30	1.64	2.12	0.79	1.13	1.30	1.64	2.12
	8H	1.08	1.38	1.61	1.90	2.40	1.08	1.38	1.61	1.90	2.40
	12H	1.29	1.55	1.81	2.05	2.63	1.29	1.55	1.81	2.05	2.63
12H	4H	0.03	0.40	0.52	0.89	1.37	0.03	0.40	0.52	0.89	1.37
	6H	0.82	1.13	1.36	1.65	2.15	0.82	1.13	1.36	1.65	2.15
	8H	1.17	1.43	1.69	1.93	2.51	1.17	1.43	1.69	1.93	2.51