

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: P867244

Luminaire Tested: PRLX-2004-L-930-117L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867244
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-930-117L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

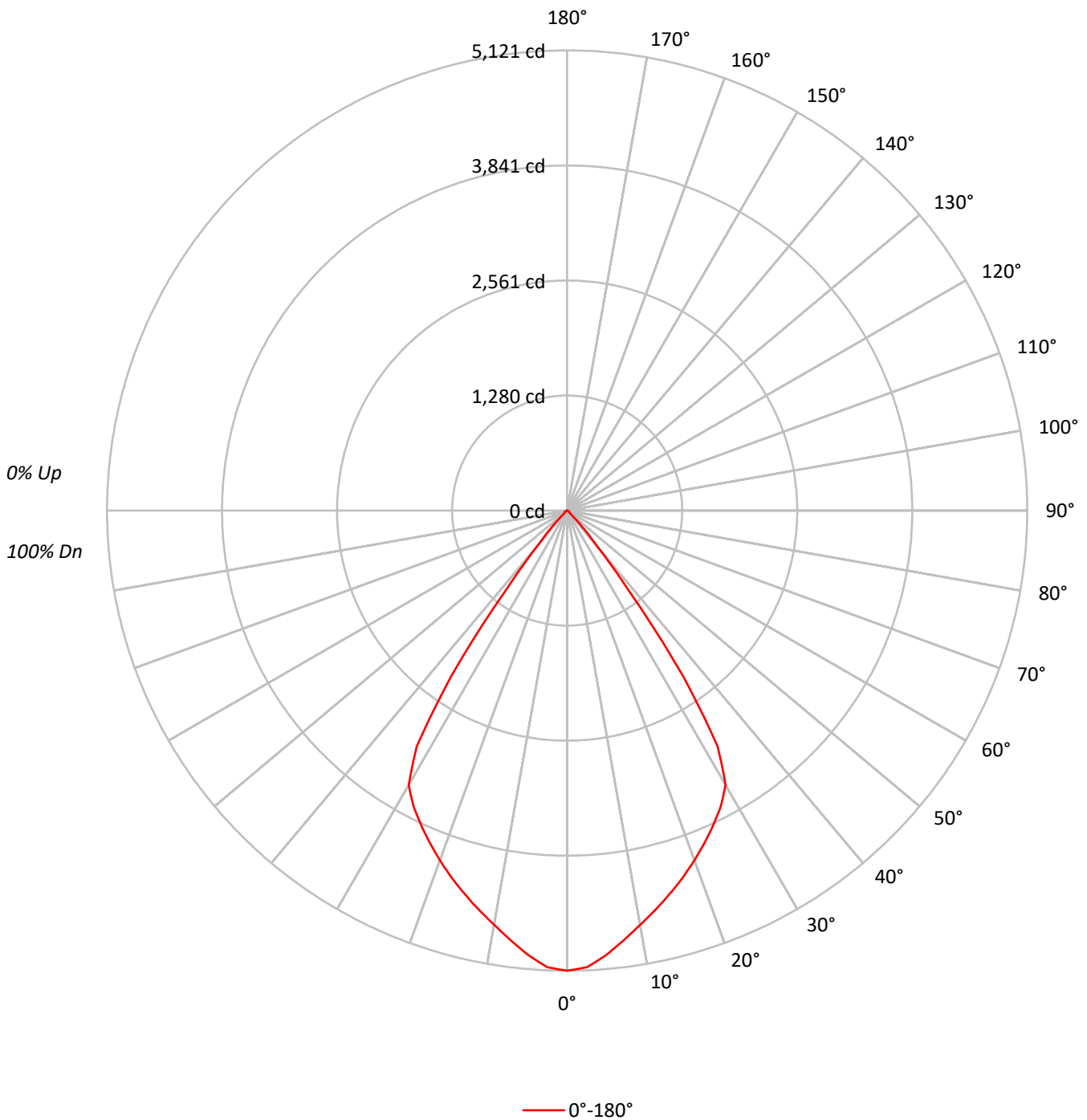
Lumens per Lamp: N/A
Luminaire Lumens: 4974.1 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	25266
5°	24594
10°	23451
15°	22551
20°	21748
25°	20987
30°	20087
35°	13551
40°	3269
45°	836
50°	294
55°	277
60°	259
65°	235
70°	218
75°	212
80°	199
85°	170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.8	9.3
10°-20°	1243.4	25.0
20°-30°	1772.9	35.6
30°-40°	1297.3	26.1
40°-50°	131.4	2.6
50°-60°	28.8	0.6
60°-70°	20.0	0.4
70°-80°	11.7	0.2
80°-90°	3.7	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°	3481.2	70.0
0°-40°	4778.5	96.1
0°-60°	4938.7	99.3
0°-90°	4974.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4974.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5121	
5°	4966	465
15°	4415	1243
25°	3855	1773
35°	2250	1297
45°	120	131
55°	32	29
65°	20	20
75°	11	12
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5121.0
2.5°	5085.7
5°	4965.9
7.5°	4820.9
10°	4680.9
12.5°	4548.0
15°	4415.0
17.5°	4281.1
20°	4142.1
22.5°	3998.1
25°	3855.1
27.5°	3705.0
30°	3525.8
32.5°	3113.9
35°	2249.8
37.5°	1144.0
40°	507.6
42.5°	268.9
45°	119.8
47.5°	42.3
50°	38.3
52.5°	35.2
55°	32.2
57.5°	29.2
60°	26.2
62.5°	23.2
65°	20.1
67.5°	17.1
70°	15.1
72.5°	13.1
75°	11.1
77.5°	9.1
80°	7.0
82.5°	5.0
85°	3.0
87.5°	2.0
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	0.04	0.43	0.00	0.00	0.00	0.04	0.43
	6H	0.00	0.09	0.00	0.47	0.87	0.00	0.09	0.00	0.47	0.87
	8H	0.00	0.20	0.00	0.60	1.01	0.00	0.20	0.00	0.60	1.01
	12H	0.00	0.26	0.08	0.64	1.08	0.00	0.26	0.08	0.64	1.08
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	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	4H	0.00	0.25	0.14	0.68	1.13	0.00	0.25	0.14	0.68	1.13
	6H	0.31	0.78	0.78	1.23	1.71	0.31	0.78	0.78	1.23	1.71
	8H	0.51	0.95	0.99	1.40	1.87	0.51	0.95	0.99	1.40	1.87
	12H	0.63	1.01	1.13	1.50	1.98	0.63	1.01	1.13	1.50	1.98
8H	4H	0.00	0.36	0.40	0.81	1.28	0.00	0.36	0.40	0.81	1.28
	6H	0.67	1.01	1.18	1.52	2.01	0.67	1.01	1.18	1.52	2.01
	8H	0.95	1.26	1.49	1.78	2.28	0.95	1.26	1.49	1.78	2.28
	12H	1.17	1.43	1.69	1.93	2.51	1.17	1.43	1.69	1.93	2.51
12H	4H	0.00	0.29	0.41	0.78	1.26	0.00	0.29	0.41	0.78	1.26
	6H	0.71	1.01	1.24	1.53	2.03	0.71	1.01	1.24	1.53	2.03
	8H	1.05	1.31	1.57	1.81	2.39	1.05	1.31	1.57	1.81	2.39