

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: P867419

Luminaire Tested: PRLX-2004-L-940-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

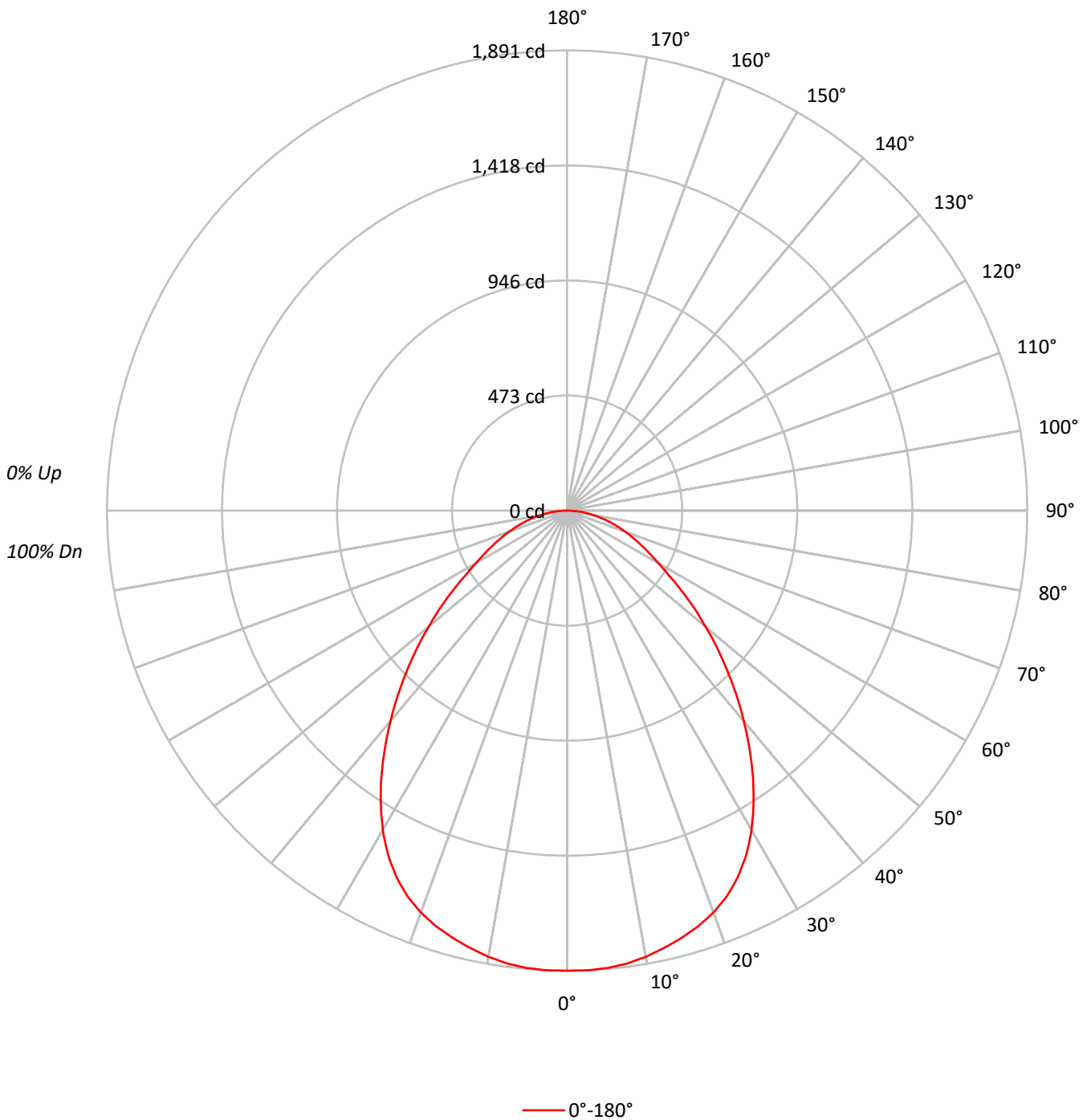
Lumens per Lamp: N/A
Luminaire Lumens: 4104.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80		85	81	78		82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68		76	71	67		74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60		69	63	59		67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52		63	57	52		61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38		49	42	38		47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32		42	36	31		41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9328
5°	9346
10°	9328
15°	9285
20°	9228
25°	9041
30°	8633
35°	8014
40°	7274
45°	6493
50°	5707
55°	4929
60°	4274
65°	3925
70°	3664
75°	3439
80°	3242
85°	3057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.4
10°-20°	512.9	12.5
20°-30°	761.2	18.5
30°-40°	829.1	20.2
40°-50°	718.8	17.5
50°-60°	516.6	12.6
60°-70°	335.0	8.2
70°-80°	191.7	4.7
80°-90°	60.1	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°	1453.5	35.4
0°-40°	2282.6	55.6
0°-60°	3518.0	85.7
0°-90°	4104.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1891	
5°	1887	179
15°	1818	513
25°	1661	761
35°	1331	829
45°	931	719
55°	573	517
65°	336	335
75°	180	192
85°	54	60
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1890.7
2.5°	1890.7
5°	1887.1
7.5°	1877.2
10°	1861.9
12.5°	1841.0
15°	1817.7
17.5°	1790.7
20°	1757.6
22.5°	1715.3
25°	1660.7
27.5°	1594.4
30°	1515.3
32.5°	1426.3
35°	1330.6
37.5°	1230.0
40°	1129.4
42.5°	1030.0
45°	930.6
47.5°	836.8
50°	743.5
52.5°	657.6
55°	573.0
57.5°	496.3
60°	433.1
62.5°	381.6
65°	336.2
67.5°	293.2
70°	254.0
72.5°	215.9
75°	180.4
77.5°	146.6
80°	114.1
82.5°	83.4
85°	54.0
87.5°	26.4
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	16.51	18.01	16.88	18.32	18.64	16.51	18.01	16.88	18.32	18.64
	3H	18.02	19.37	18.40	19.70	20.06	18.02	19.37	18.40	19.70	20.06
	4H	18.62	19.88	19.02	20.23	20.61	18.62	19.88	19.02	20.23	20.61
	6H	19.10	20.27	19.51	20.63	21.02	19.10	20.27	19.51	20.63	21.02
	8H	19.27	20.38	19.70	20.77	21.17	19.27	20.38	19.70	20.77	21.17
	12H	19.39	20.45	19.82	20.84	21.27	19.39	20.45	19.82	20.84	21.27
4H	2H	17.01	18.27	17.41	18.62	19.00	17.01	18.27	17.41	18.62	19.00
	3H	18.76	19.81	19.17	20.21	20.61	18.76	19.81	19.17	20.21	20.61
	4H	19.50	20.44	19.93	20.86	21.30	19.50	20.44	19.93	20.86	21.30
	6H	20.12	20.94	20.57	21.38	21.84	20.12	20.94	20.57	21.38	21.84
	8H	20.34	21.11	20.80	21.55	22.02	20.34	21.11	20.80	21.55	22.02
	12H	20.51	21.20	21.00	21.68	22.15	20.51	21.20	21.00	21.68	22.15
8H	4H	19.78	20.54	20.24	20.99	21.46	19.78	20.54	20.24	20.99	21.46
	6H	20.52	21.16	21.02	21.65	22.13	20.52	21.16	21.02	21.65	22.13
	8H	20.83	21.40	21.34	21.91	22.40	20.83	21.40	21.34	21.91	22.40
	12H	21.09	21.60	21.60	22.09	22.66	21.09	21.60	21.60	22.09	22.66
12H	4H	19.80	20.49	20.29	20.97	21.44	19.80	20.49	20.29	20.97	21.44
	6H	20.58	21.15	21.09	21.66	22.15	20.58	21.15	21.09	21.66	22.15
	8H	20.95	21.45	21.46	21.95	22.51	20.95	21.45	21.46	21.95	22.51