

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: P867379

Luminaire Tested: PRLX-2004-L-940-117L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867379
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: Prenalux
Catalog Number: PRLX-2004-L-940-117L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

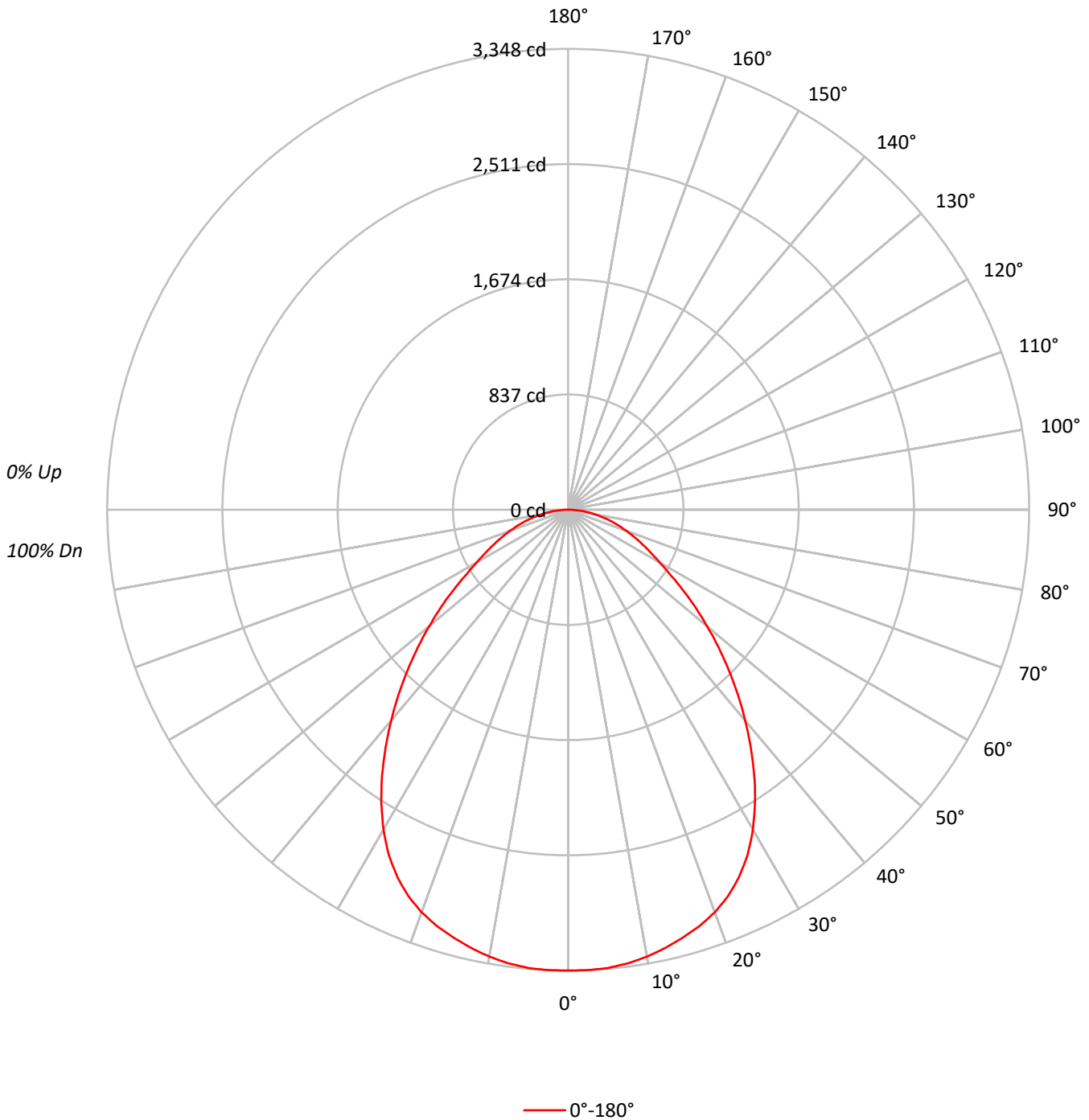
Lumens per Lamp: N/A
Luminaire Lumens: 7268.6 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	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°	16518
5°	16549
10°	16518
15°	16441
20°	16341
25°	16008
30°	15286
35°	14192
40°	12881
45°	11498
50°	10106
55°	8727
60°	7567
65°	6950
70°	6487
75°	6089
80°	5742
85°	5412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	4.4
10°-20°	908.3	12.5
20°-30°	1348.0	18.5
30°-40°	1468.1	20.2
40°-50°	1272.9	17.5
50°-60°	914.7	12.6
60°-70°	593.2	8.2
70°-80°	339.5	4.7
80°-90°	106.4	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°	2573.8	35.4
0°-40°	4041.9	55.6
0°-60°	6229.5	85.7
0°-90°	7268.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7268.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3348	
5°	3342	318
15°	3219	908
25°	2941	1348
35°	2356	1468
45°	1648	1273
55°	1015	915
65°	595	593
75°	319	340
85°	96	106
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3348.0
2.5°	3348.0
5°	3341.5
7.5°	3324.1
10°	3297.0
12.5°	3260.0
15°	3218.7
17.5°	3170.9
20°	3112.3
22.5°	3037.3
25°	2940.6
27.5°	2823.3
30°	2683.2
32.5°	2525.7
35°	2356.2
37.5°	2178.1
40°	1999.9
42.5°	1823.9
45°	1647.9
47.5°	1481.7
50°	1316.6
52.5°	1164.5
55°	1014.6
57.5°	878.8
60°	766.9
62.5°	675.7
65°	595.3
67.5°	519.3
70°	449.7
72.5°	382.4
75°	319.4
77.5°	259.6
80°	202.1
82.5°	147.7
85°	95.6
87.5°	46.7
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	18.50	20.00	18.86	20.31	20.62	18.50	20.00	18.86	20.31	20.62
	3H	20.01	21.35	20.39	21.68	22.04	20.01	21.35	20.39	21.68	22.04
	4H	20.61	21.87	21.01	22.22	22.60	20.61	21.87	21.01	22.22	22.60
	6H	21.09	22.25	21.50	22.62	23.01	21.09	22.25	21.50	22.62	23.01
	8H	21.26	22.36	21.68	22.75	23.16	21.26	22.36	21.68	22.75	23.16
	12H	21.38	22.44	21.81	22.82	23.25	21.38	22.44	21.81	22.82	23.25
4H	2H	19.00	20.26	19.40	20.61	20.99	19.00	20.26	19.40	20.61	20.99
	3H	20.75	21.80	21.16	22.20	22.60	20.75	21.80	21.16	22.20	22.60
	4H	21.49	22.43	21.92	22.84	23.28	21.49	22.43	21.92	22.84	23.28
	6H	22.10	22.92	22.56	23.37	23.83	22.10	22.92	22.56	23.37	23.83
	8H	22.32	23.09	22.79	23.54	24.00	22.32	23.09	22.79	23.54	24.00
	12H	22.50	23.19	22.98	23.66	24.14	22.50	23.19	22.98	23.66	24.14
8H	4H	21.76	22.53	22.23	22.97	23.44	21.76	22.53	22.23	22.97	23.44
	6H	22.51	23.15	23.01	23.64	24.12	22.51	23.15	23.01	23.64	24.12
	8H	22.82	23.39	23.33	23.90	24.39	22.82	23.39	23.33	23.90	24.39
	12H	23.08	23.58	23.59	24.08	24.64	23.08	23.58	23.59	24.08	24.64
12H	4H	21.79	22.48	22.27	22.95	23.43	21.79	22.48	22.27	22.95	23.43
	6H	22.57	23.14	23.08	23.65	24.14	22.57	23.14	23.08	23.65	24.14
	8H	22.93	23.44	23.44	23.93	24.50	22.93	23.44	23.44	23.93	24.50