

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: P866899

Luminaire Tested: PRLX-2001-L-940-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-48L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

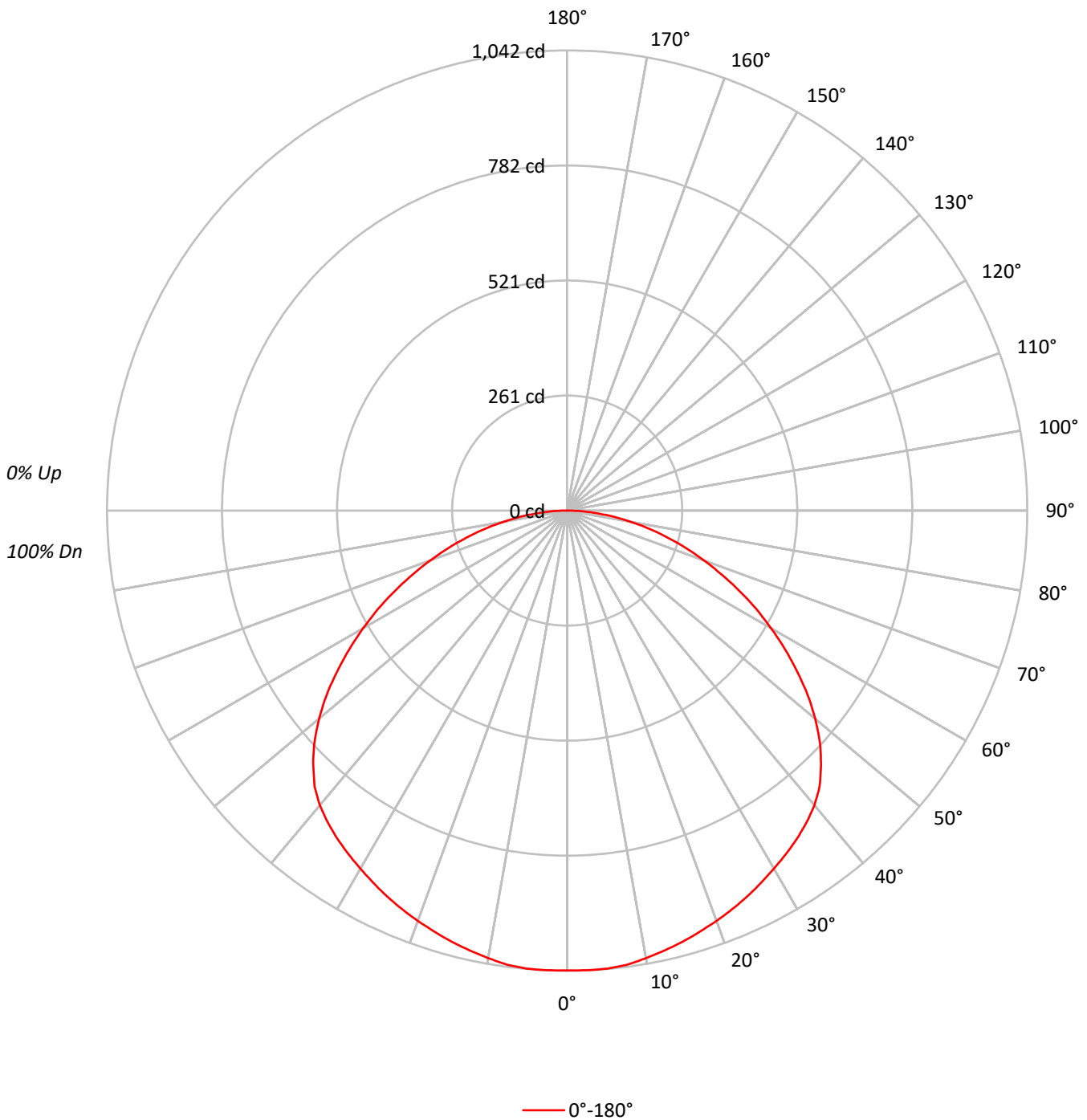
Lumens per Lamp: N/A
Luminaire Lumens: 3342.3 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

TEST NUMBER: P866899

CATALOG NUMBER: PRLX-2001-L-940-48L-G-X-X-WHHR-X

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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5692
5°	5714
10°	5712
15°	5720
20°	5753
25°	5816
30°	5910
35°	6054
40°	6217
45°	6288
50°	6238
55°	6061
60°	5832
65°	5566
70°	5268
75°	4949
80°	4606
85°	4115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.0
10°-20°	285.7	8.5
20°-30°	445.3	13.3
30°-40°	568.3	17.0
40°-50°	625.5	18.7
50°-60°	568.3	17.0
60°-70°	426.4	12.8
70°-80°	249.2	7.5
80°-90°	74.6	2.2
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°	830.0	24.8
0°-40°	1398.2	41.8
0°-60°	2592.1	77.6
0°-90°	3342.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1041	
5°	1041	99
15°	1011	286
25°	964	445
35°	907	568
45°	813	626
55°	636	568
65°	430	426
75°	234	249
85°	66	75
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1041.2
2.5°	1041.7
5°	1041.2
7.5°	1037.6
10°	1028.9
12.5°	1020.2
15°	1010.7
17.5°	999.7
20°	988.8
22.5°	976.9
25°	964.2
27.5°	950.5
30°	936.3
32.5°	922.2
35°	907.2
37.5°	890.3
40°	871.2
42.5°	846.5
45°	813.3
47.5°	776.3
50°	733.5
52.5°	687.0
55°	635.9
57.5°	585.3
60°	533.4
62.5°	482.8
65°	430.3
67.5°	378.8
70°	329.6
72.5°	282.2
75°	234.3
77.5°	190.6
80°	146.3
82.5°	104.8
85°	65.6
87.5°	30.5
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	18.52	20.20	18.88	20.51	20.82	18.52	20.20	18.88	20.51	20.82
	3H	20.29	21.81	20.67	22.14	22.50	20.29	21.81	20.67	22.14	22.50
	4H	20.98	22.41	21.38	22.76	23.13	20.98	22.41	21.38	22.76	23.13
	6H	21.51	22.84	21.92	23.21	23.60	21.51	22.84	21.92	23.21	23.60
	8H	21.69	22.96	22.12	23.35	23.75	21.69	22.96	22.12	23.35	23.75
	12H	21.82	23.04	22.25	23.42	23.85	21.82	23.04	22.25	23.42	23.85
4H	2H	19.15	20.58	19.54	20.93	21.30	19.15	20.58	19.54	20.93	21.30
	3H	21.15	22.35	21.56	22.75	23.15	21.15	22.35	21.56	22.75	23.15
	4H	21.97	23.06	22.40	23.47	23.91	21.97	23.06	22.40	23.47	23.91
	6H	22.64	23.60	23.09	24.04	24.49	22.64	23.60	23.09	24.04	24.49
	8H	22.87	23.77	23.33	24.21	24.68	22.87	23.77	23.33	24.21	24.68
	12H	23.05	23.86	23.53	24.33	24.80	23.05	23.86	23.53	24.33	24.80
8H	4H	22.30	23.20	22.76	23.64	24.10	22.30	23.20	22.76	23.64	24.10
	6H	23.10	23.85	23.59	24.34	24.81	23.10	23.85	23.59	24.34	24.81
	8H	23.42	24.09	23.92	24.59	25.08	23.42	24.09	23.92	24.59	25.08
	12H	23.68	24.27	24.18	24.76	25.32	23.68	24.27	24.18	24.76	25.32
12H	4H	22.34	23.15	22.82	23.62	24.09	22.34	23.15	22.82	23.62	24.09
	6H	23.17	23.84	23.68	24.35	24.83	23.17	23.84	23.68	24.35	24.83
	8H	23.55	24.14	24.05	24.63	25.19	23.55	24.14	24.05	24.63	25.19