

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: P866904

Luminaire Tested: PRLX-2001-L-940-67L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-940-67L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

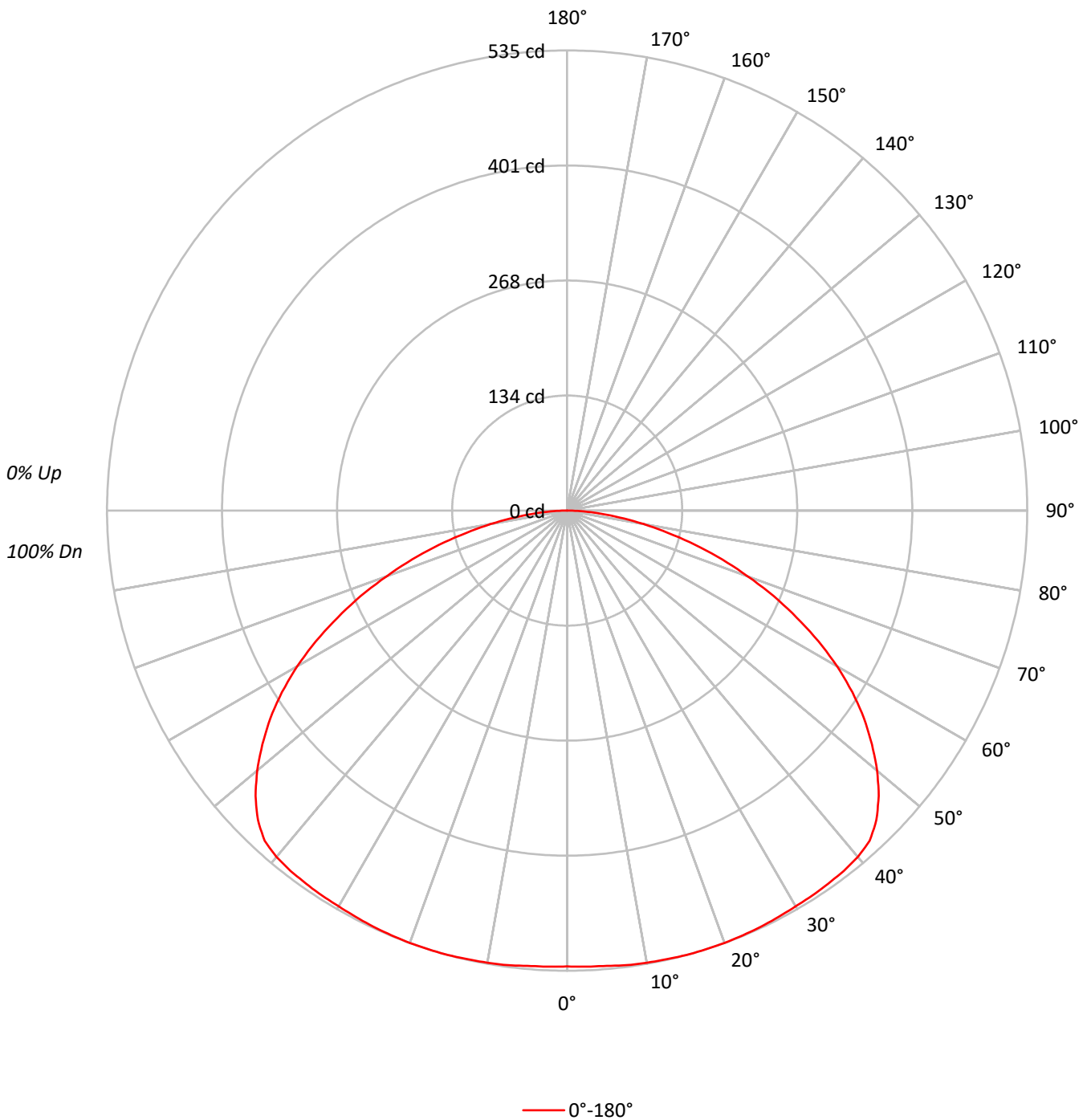
Lumens per Lamp: N/A
Luminaire Lumens: 2044.7 lumens
Efficiency: N/A
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2897
5°	2916
10°	2963
15°	3028
20°	3112
25°	3219
30°	3354
35°	3533
40°	3752
45°	3932
50°	4002
55°	4017
60°	3965
65°	3810
70°	3569
75°	3253
80°	2840
85°	2233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	2.5
10°-20°	151.6	7.4
20°-30°	246.8	12.1
30°-40°	332.4	16.3
40°-50°	390.3	19.1
50°-60°	375.4	18.4
60°-70°	291.2	14.2
70°-80°	163.4	8.0
80°-90°	42.8	2.1
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°	449.2	22.0
0°-40°	781.6	38.2
0°-60°	1547.3	75.7
0°-90°	2044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	530	
5°	531	51
15°	535	152
25°	534	247
35°	529	332
45°	509	390
55°	422	375
65°	294	291
75°	154	163
85°	36	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	530.0
2.5°	530.7
5°	531.3
7.5°	533.1
10°	533.7
12.5°	534.3
15°	535.0
17.5°	535.0
20°	535.0
22.5°	534.3
25°	533.7
27.5°	532.5
30°	531.3
32.5°	530.7
35°	529.4
37.5°	528.2
40°	525.7
42.5°	520.8
45°	508.6
47.5°	491.4
50°	470.5
52.5°	446.6
55°	421.5
57.5°	393.2
60°	362.6
62.5°	329.4
65°	294.5
67.5°	260.1
70°	223.3
72.5°	189.0
75°	154.0
77.5°	120.2
80°	90.2
82.5°	61.3
85°	35.6
87.5°	15.3
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	17.41	19.13	17.78	19.45	19.76	17.41	19.13	17.78	19.45	19.76
	3H	19.24	20.80	19.61	21.12	21.48	19.24	20.80	19.61	21.12	21.48
	4H	19.89	21.37	20.29	21.71	22.09	19.89	21.37	20.29	21.71	22.09
	6H	20.35	21.72	20.76	22.09	22.48	20.35	21.72	20.76	22.09	22.48
	8H	20.50	21.81	20.92	22.19	22.59	20.50	21.81	20.92	22.19	22.59
	12H	20.58	21.84	21.01	22.22	22.65	20.58	21.84	21.01	22.22	22.65
4H	2H	18.07	19.54	18.47	19.89	20.26	18.07	19.54	18.47	19.89	20.26
	3H	20.11	21.35	20.51	21.74	22.14	20.11	21.35	20.51	21.74	22.14
	4H	20.89	22.01	21.32	22.42	22.86	20.89	22.01	21.32	22.42	22.86
	6H	21.47	22.46	21.92	22.90	23.35	21.47	22.46	21.92	22.90	23.35
	8H	21.66	22.58	22.12	23.02	23.48	21.66	22.58	22.12	23.02	23.48
	12H	21.79	22.62	22.26	23.09	23.56	21.79	22.62	22.26	23.09	23.56
8H	4H	21.20	22.12	21.66	22.56	23.03	21.20	22.12	21.66	22.56	23.03
	6H	21.90	22.67	22.39	23.15	23.63	21.90	22.67	22.39	23.15	23.63
	8H	22.15	22.84	22.65	23.34	23.83	22.15	22.84	22.65	23.34	23.83
	12H	22.34	22.95	22.84	23.44	24.00	22.34	22.95	22.84	23.44	24.00
12H	4H	21.23	22.07	21.71	22.54	23.01	21.23	22.07	21.71	22.54	23.01
	6H	21.95	22.64	22.46	23.15	23.63	21.95	22.64	22.46	23.15	23.63
	8H	22.26	22.87	22.76	23.36	23.91	22.26	22.87	22.76	23.36	23.91