

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: P866912

Luminaire Tested: PRLX-2001-L-940-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866912
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-940-83L-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 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

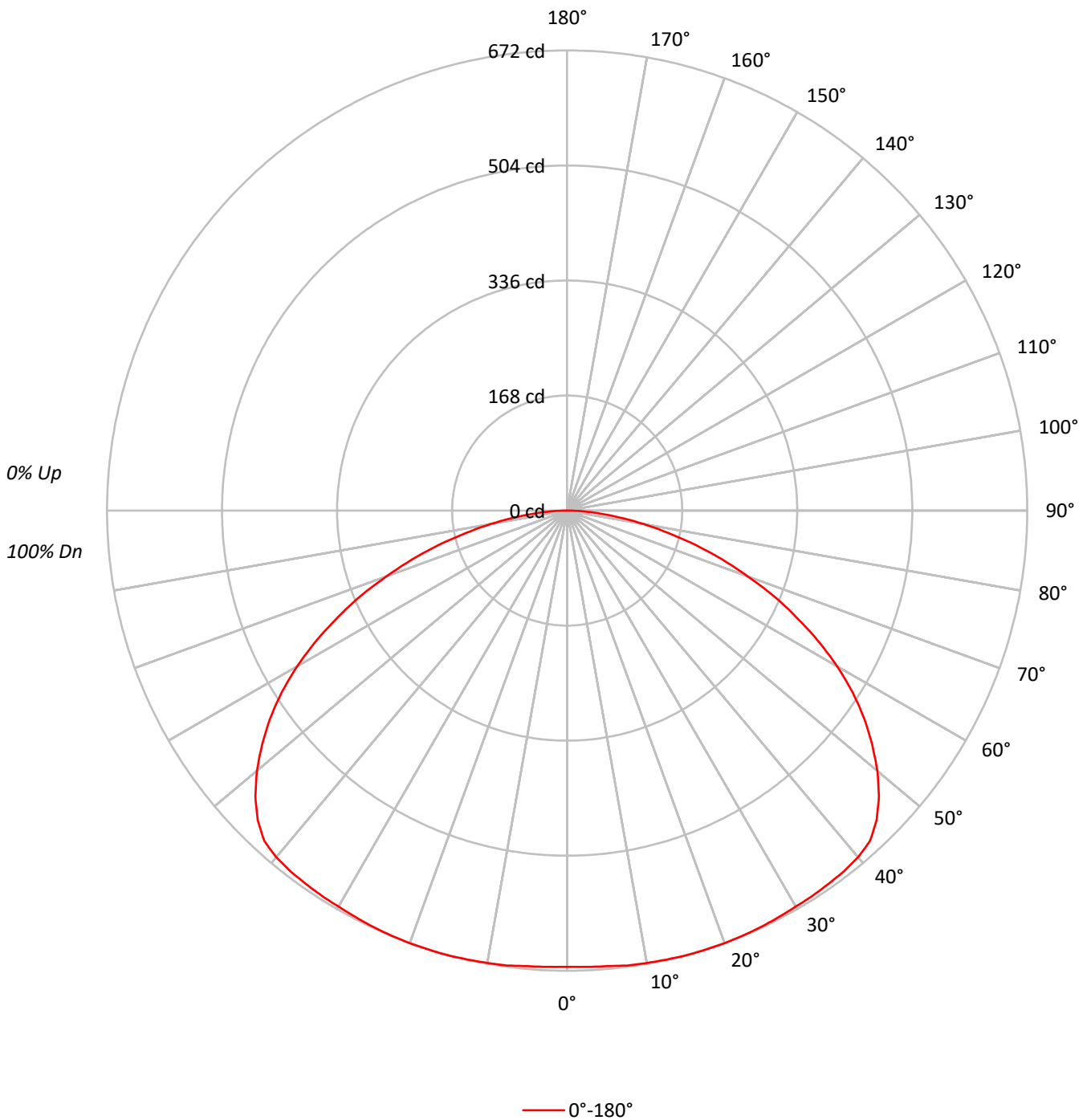
Lumens per Lamp: N/A
Luminaire Lumens: 2570.0 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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: 0.5 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°	3642
5°	3665
10°	3724
15°	3806
20°	3912
25°	4046
30°	4216
35°	4441
40°	4716
45°	4942
50°	5030
55°	5049
60°	4982
65°	4787
70°	4487
75°	4087
80°	3567
85°	2804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	2.5
10°-20°	190.5	7.4
20°-30°	310.3	12.1
30°-40°	417.8	16.3
40°-50°	490.6	19.1
50°-60°	471.9	18.4
60°-70°	366.0	14.2
70°-80°	205.4	8.0
80°-90°	53.8	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°	564.7	22.0
0°-40°	982.4	38.2
0°-60°	1944.8	75.7
0°-90°	2570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	666	
5°	668	64
15°	672	191
25°	671	310
35°	665	418
45°	639	491
55°	530	472
65°	370	366
75°	194	205
85°	45	54
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	666.2
2.5°	667.0
5°	667.8
7.5°	670.1
10°	670.8
12.5°	671.6
15°	672.4
17.5°	672.4
20°	672.4
22.5°	671.6
25°	670.8
27.5°	669.3
30°	667.8
32.5°	667.0
35°	665.4
37.5°	663.9
40°	660.8
42.5°	654.7
45°	639.2
47.5°	617.6
50°	591.4
52.5°	561.4
55°	529.7
57.5°	494.3
60°	455.7
62.5°	414.1
65°	370.1
67.5°	326.9
70°	280.7
72.5°	237.5
75°	193.5
77.5°	151.1
80°	113.3
82.5°	77.1
85°	44.7
87.5°	19.3
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	18.21	19.93	18.57	20.24	20.55	18.21	19.93	18.57	20.24	20.55
	3H	20.03	21.59	20.41	21.92	22.28	20.03	21.59	20.41	21.92	22.28
	4H	20.69	22.16	21.08	22.51	22.88	20.69	22.16	21.08	22.51	22.88
	6H	21.15	22.52	21.56	22.88	23.27	21.15	22.52	21.56	22.88	23.27
	8H	21.29	22.60	21.71	22.99	23.39	21.29	22.60	21.71	22.99	23.39
	12H	21.38	22.63	21.81	23.02	23.44	21.38	22.63	21.81	23.02	23.44
4H	2H	18.87	20.34	19.26	20.69	21.06	18.87	20.34	19.26	20.69	21.06
	3H	20.90	22.14	21.31	22.54	22.94	20.90	22.14	21.31	22.54	22.94
	4H	21.68	22.81	22.11	23.22	23.65	21.68	22.81	22.11	23.22	23.65
	6H	22.27	23.25	22.72	23.69	24.14	22.27	23.25	22.72	23.69	24.14
	8H	22.45	23.37	22.91	23.82	24.28	22.45	23.37	22.91	23.82	24.28
	12H	22.58	23.41	23.06	23.89	24.35	22.58	23.41	23.06	23.89	24.35
8H	4H	21.99	22.92	22.45	23.36	23.82	21.99	22.92	22.45	23.36	23.82
	6H	22.69	23.46	23.18	23.95	24.42	22.69	23.46	23.18	23.95	24.42
	8H	22.94	23.63	23.45	24.14	24.62	22.94	23.63	23.45	24.14	24.62
	12H	23.13	23.75	23.64	24.23	24.79	23.13	23.75	23.64	24.23	24.79
12H	4H	22.03	22.86	22.51	23.33	23.80	22.03	22.86	22.51	23.33	23.80
	6H	22.74	23.44	23.25	23.94	24.42	22.74	23.44	23.25	23.94	24.42
	8H	23.05	23.66	23.56	24.15	24.71	23.05	23.66	23.56	24.15	24.71