

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: P866086

Luminaire Tested: PRLX-2001-M-940-07L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-07L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

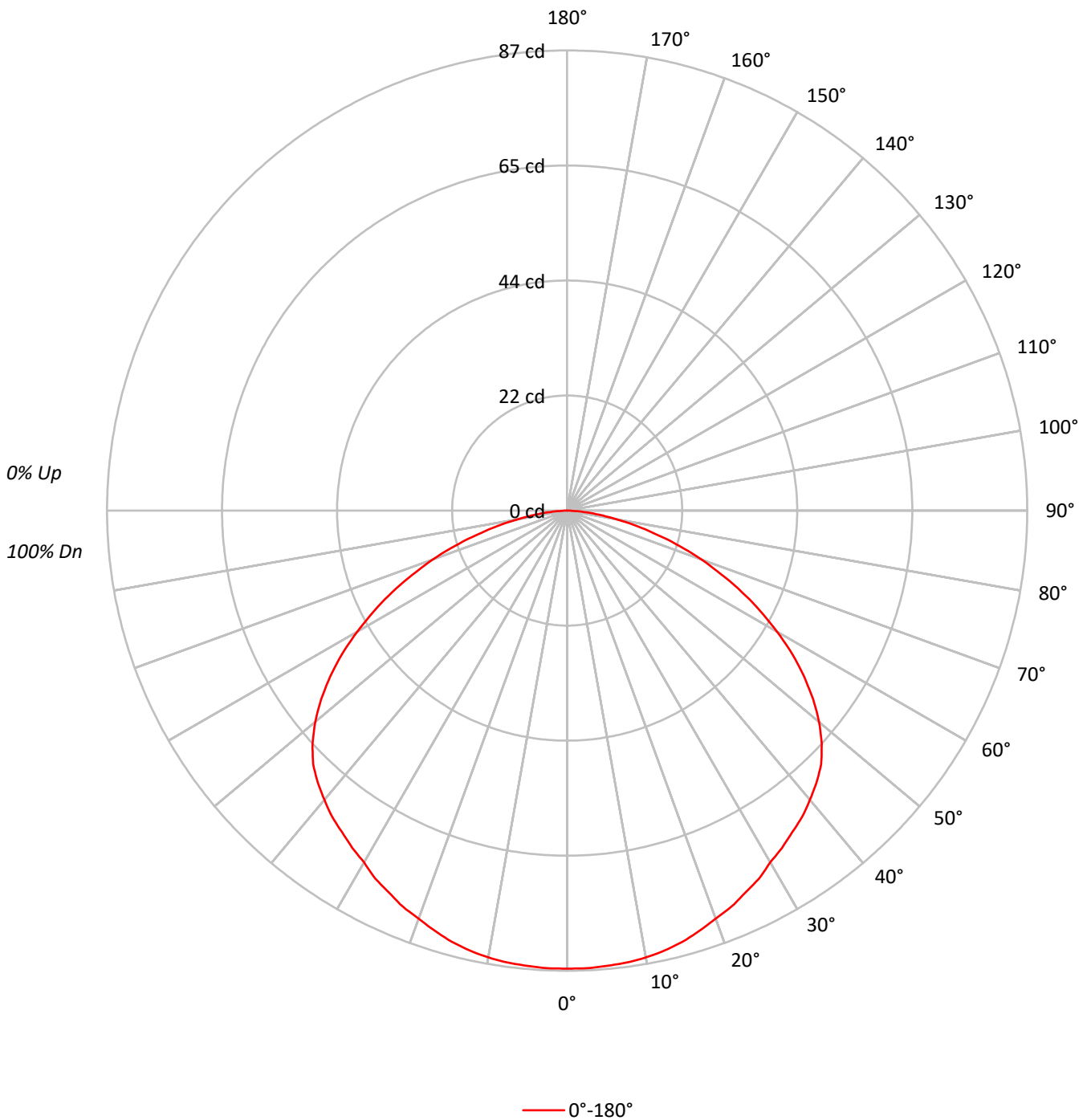
Lumens per Lamp: N/A
Luminaire Lumens: 275.3 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	735
5°	736
10°	739
15°	741
20°	741
25°	746
30°	753
35°	769
40°	791
45°	815
50°	821
55°	809
60°	777
65°	733
70°	670
75°	577
80°	464
85°	312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 821 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	3.0
10°-20°	23.8	8.7
20°-30°	36.8	13.4
30°-40°	46.6	16.9
40°-50°	52.1	18.9
50°-60°	48.7	17.7
60°-70°	36.0	13.1
70°-80°	18.9	6.9
80°-90°	4.1	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°	68.9	25.0
0°-40°	115.4	41.9
0°-60°	216.3	78.6
0°-90°	275.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	275.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	87	
5°	86	8
15°	84	24
25°	80	37
35°	74	47
45°	68	52
55°	55	49
65°	36	36
75°	18	19
85°	3	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	86.6
2.5°	86.6
5°	86.4
7.5°	86.2
10°	85.8
12.5°	85.2
15°	84.4
17.5°	83.3
20°	82.1
22.5°	81.1
25°	79.7
27.5°	78.5
30°	76.8
32.5°	75.6
35°	74.2
37.5°	73.0
40°	71.4
42.5°	69.8
45°	67.9
47.5°	65.3
50°	62.2
52.5°	58.6
55°	54.7
57.5°	50.5
60°	45.8
62.5°	41.2
65°	36.5
67.5°	31.6
70°	27.0
72.5°	22.3
75°	17.6
77.5°	13.6
80°	9.5
82.5°	6.1
85°	3.2
87.5°	1.0
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	11.70	13.37	12.06	13.68	14.00	11.70	13.37	12.06	13.68	14.00
	3H	13.36	14.87	13.74	15.20	15.56	13.36	14.87	13.74	15.20	15.56
	4H	13.92	15.34	14.32	15.69	16.06	13.92	15.34	14.32	15.69	16.06
	6H	14.28	15.60	14.69	15.96	16.35	14.28	15.60	14.69	15.96	16.35
	8H	14.37	15.63	14.79	16.02	16.42	14.37	15.63	14.79	16.02	16.42
	12H	14.41	15.62	14.84	16.00	16.43	14.41	15.62	14.84	16.00	16.43
4H	2H	12.31	13.73	12.70	14.08	14.45	12.31	13.73	12.70	14.08	14.45
	3H	14.17	15.37	14.58	15.77	16.16	14.17	15.37	14.58	15.77	16.16
	4H	14.84	15.92	15.27	16.34	16.77	14.84	15.92	15.27	16.34	16.77
	6H	15.31	16.25	15.76	16.69	17.15	15.31	16.25	15.76	16.69	17.15
	8H	15.43	16.31	15.89	16.76	17.22	15.43	16.31	15.89	16.76	17.22
	12H	15.50	16.30	15.98	16.77	17.24	15.50	16.30	15.98	16.77	17.24
8H	4H	15.10	15.99	15.56	16.43	16.89	15.10	15.99	15.56	16.43	16.89
	6H	15.66	16.39	16.15	16.88	17.35	15.66	16.39	16.15	16.88	17.35
	8H	15.83	16.49	16.34	16.99	17.48	15.83	16.49	16.34	16.99	17.48
	12H	15.94	16.52	16.45	17.01	17.57	15.94	16.52	16.45	17.01	17.57
12H	4H	15.12	15.92	15.60	16.39	16.86	15.12	15.92	15.60	16.39	16.86
	6H	15.69	16.35	16.20	16.85	17.34	15.69	16.35	16.20	16.85	17.34
	8H	15.90	16.48	16.41	16.97	17.53	15.90	16.48	16.41	16.97	17.53