

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: P865542

Luminaire Tested: PRLX-2001-S-940-10L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-10L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

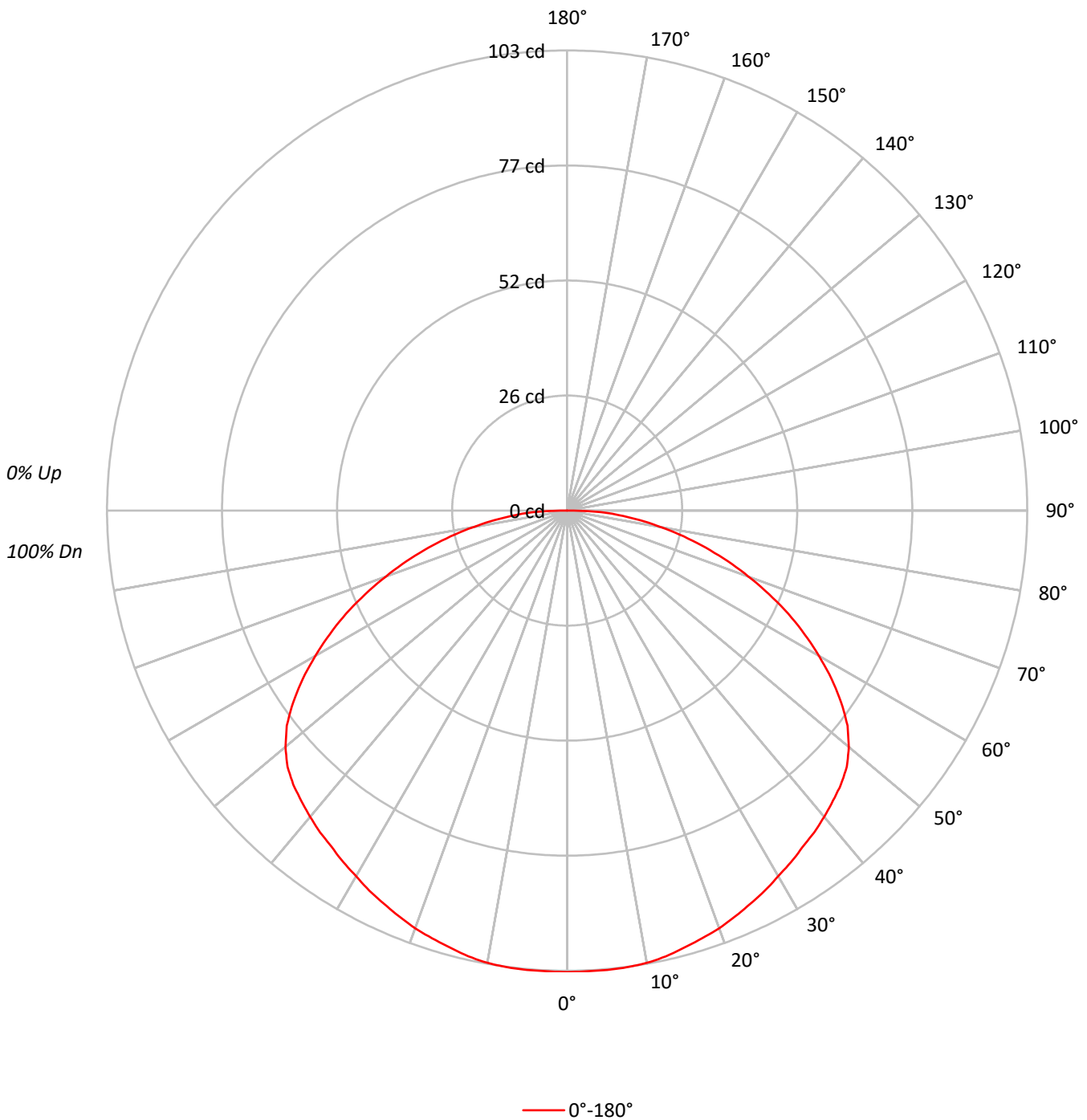
Lumens per Lamp: N/A
Luminaire Lumens: 375.1 lumens
Efficiency: N/A
Efficacy: 35.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	107	102	97	93	105	100	95	91	95	92	88		91	88	86		88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71		79	74	70		76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59		69	63	58		66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49		60	54	48		58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28		40	33	28		39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1685
5°	1690
10°	1703
15°	1710
20°	1727
25°	1747
30°	1780
35°	1830
40°	1906
45°	2000
50°	2088
55°	2130
60°	2124
65°	2107
70°	2060
75°	2023
80°	2010
85°	2190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 2842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	2.6
10°-20°	28.7	7.6
20°-30°	44.9	12.0
30°-40°	57.7	15.4
40°-50°	66.8	17.8
50°-60°	66.7	17.8
60°-70°	53.8	14.4
70°-80°	34.0	9.1
80°-90°	12.6	3.4
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
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0°-30°	83.4	22.2
0°-40°	141.1	37.6
0°-60°	274.6	73.2
0°-90°	375.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	375.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	103	
5°	103	10
15°	101	29
25°	97	45
35°	92	58
45°	87	67
55°	75	67
65°	55	54
75°	32	34
85°	12	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	103.3
2.5°	103.2
5°	103.2
7.5°	103.1
10°	102.8
12.5°	102.2
15°	101.3
17.5°	100.4
20°	99.5
22.5°	98.3
25°	97.1
27.5°	95.9
30°	94.5
32.5°	93.3
35°	91.9
37.5°	90.8
40°	89.5
42.5°	88.1
45°	86.7
47.5°	84.9
50°	82.3
52.5°	79.1
55°	74.9
57.5°	70.2
60°	65.1
62.5°	59.9
65°	54.6
67.5°	48.9
70°	43.2
72.5°	37.7
75°	32.1
77.5°	26.7
80°	21.4
82.5°	16.4
85°	11.7
87.5°	7.6
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	15.11	16.85	15.48	17.16	17.48	15.11	16.85	15.48	17.16	17.48
	3H	17.12	18.71	17.50	19.03	19.39	17.12	18.71	17.50	19.03	19.39
	4H	17.94	19.43	18.33	19.78	20.15	17.94	19.43	18.33	19.78	20.15
	6H	18.61	20.01	19.02	20.37	20.76	18.61	20.01	19.02	20.37	20.76
	8H	18.88	20.21	19.30	20.60	21.00	18.88	20.21	19.30	20.60	21.00
	12H	19.11	20.39	19.53	20.77	21.19	19.11	20.39	19.53	20.77	21.19
4H	2H	15.82	17.31	16.22	17.66	18.03	15.82	17.31	16.22	17.66	18.03
	3H	18.06	19.33	18.47	19.72	20.12	18.06	19.33	18.47	19.72	20.12
	4H	19.02	20.17	19.45	20.58	21.01	19.02	20.17	19.45	20.58	21.01
	6H	19.84	20.86	20.29	21.30	21.75	19.84	20.86	20.29	21.30	21.75
	8H	20.18	21.13	20.63	21.57	22.03	20.18	21.13	20.63	21.57	22.03
	12H	20.48	21.34	20.95	21.81	22.28	20.48	21.34	20.95	21.81	22.28
8H	4H	19.41	20.37	19.87	20.81	21.27	19.41	20.37	19.87	20.81	21.27
	6H	20.40	21.20	20.89	21.68	22.15	20.40	21.20	20.89	21.68	22.15
	8H	20.84	21.55	21.34	22.06	22.54	20.84	21.55	21.34	22.06	22.54
	12H	21.25	21.89	21.75	22.38	22.93	21.25	21.89	21.75	22.38	22.93
12H	4H	19.48	20.34	19.95	20.81	21.28	19.48	20.34	19.95	20.81	21.28
	6H	20.50	21.22	21.00	21.72	22.21	20.50	21.22	21.00	21.72	22.21
	8H	21.01	21.65	21.52	22.14	22.70	21.01	21.65	21.52	22.14	22.70