

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: P865543

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
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-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

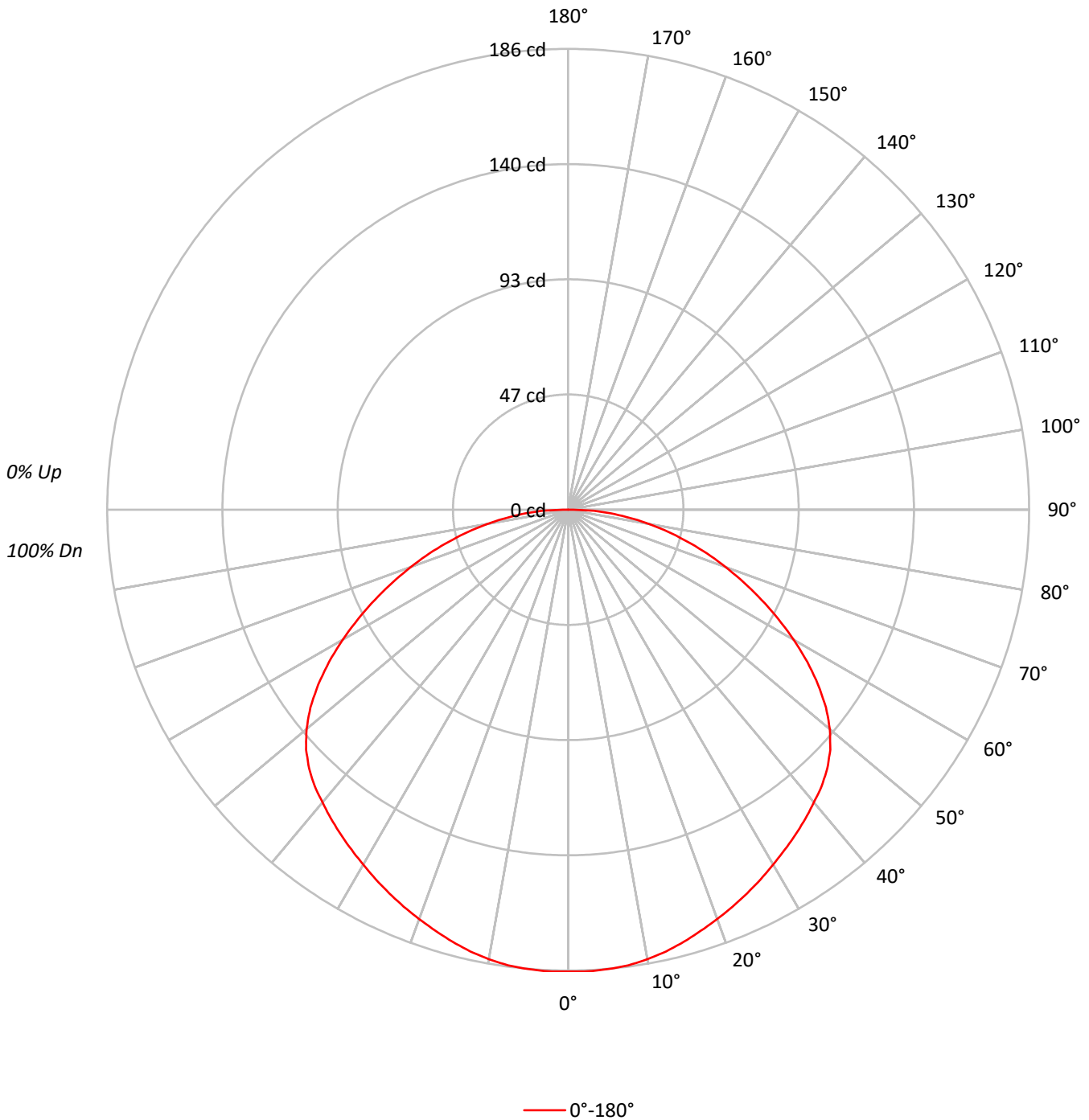
Lumens per Lamp: N/A
Luminaire Lumens: 628.2 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3040
5°	3047
10°	3051
15°	3048
20°	3051
25°	3074
30°	3115
35°	3186
40°	3283
45°	3409
50°	3497
55°	3500
60°	3428
65°	3319
70°	3219
75°	3132
80°	3100
85°	3237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 3889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	2.8
10°-20°	51.0	8.1
20°-30°	78.9	12.6
30°-40°	100.3	16.0
40°-50°	113.8	18.1
50°-60°	109.6	17.5
60°-70°	85.3	13.6
70°-80°	52.7	8.4
80°-90°	18.9	3.0
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°	147.6	23.5
0°-40°	247.9	39.5
0°-60°	471.3	75.0
0°-90°	628.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	186	
5°	186	18
15°	180	51
25°	171	79
35°	160	100
45°	148	114
55°	123	110
65°	86	85
75°	50	53
85°	17	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	186.4
2.5°	186.5
5°	186.1
7.5°	185.5
10°	184.2
12.5°	182.6
15°	180.5
17.5°	178.2
20°	175.8
22.5°	173.4
25°	170.8
27.5°	168.2
30°	165.4
32.5°	162.7
35°	160.0
37.5°	157.2
40°	154.2
42.5°	151.4
45°	147.8
47.5°	143.4
50°	137.8
52.5°	131.1
55°	123.1
57.5°	114.4
60°	105.1
62.5°	95.6
65°	86.0
67.5°	76.7
70°	67.5
72.5°	58.7
75°	49.7
77.5°	41.3
80°	33.0
82.5°	25.1
85°	17.3
87.5°	10.4
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	16.74	18.45	17.11	18.77	19.08	16.74	18.45	17.11	18.77	19.08
	3H	18.63	20.19	19.01	20.51	20.87	18.63	20.19	19.01	20.51	20.87
	4H	19.40	20.87	19.79	21.21	21.59	19.40	20.87	19.79	21.21	21.59
	6H	20.04	21.40	20.45	21.76	22.15	20.04	21.40	20.45	21.76	22.15
	8H	20.28	21.59	20.71	21.98	22.38	20.28	21.59	20.71	21.98	22.38
	12H	20.49	21.74	20.92	22.12	22.55	20.49	21.74	20.92	22.12	22.55
4H	2H	17.40	18.87	17.80	19.21	19.59	17.40	18.87	17.80	19.21	19.59
	3H	19.53	20.77	19.94	21.16	21.56	19.53	20.77	19.94	21.16	21.56
	4H	20.44	21.57	20.87	21.98	22.41	20.44	21.57	20.87	21.98	22.41
	6H	21.23	22.22	21.68	22.66	23.11	21.23	22.22	21.68	22.66	23.11
	8H	21.54	22.47	22.00	22.91	23.38	21.54	22.47	22.00	22.91	23.38
	12H	21.81	22.65	22.29	23.13	23.59	21.81	22.65	22.29	23.13	23.59
8H	4H	20.81	21.74	21.27	22.18	22.65	20.81	21.74	21.27	22.18	22.65
	6H	21.76	22.54	22.25	23.02	23.49	21.76	22.54	22.25	23.02	23.49
	8H	22.17	22.87	22.68	23.38	23.86	22.17	22.87	22.68	23.38	23.86
	12H	22.55	23.18	23.06	23.66	24.22	22.55	23.18	23.06	23.66	24.22
12H	4H	20.87	21.71	21.35	22.18	22.65	20.87	21.71	21.35	22.18	22.65
	6H	21.85	22.55	22.36	23.06	23.54	21.85	22.55	22.36	23.06	23.54
	8H	22.34	22.96	22.84	23.45	24.01	22.34	22.96	22.84	23.45	24.01