

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: P865556

Luminaire Tested: PRLX-2001-S-940-20L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2001-S-940-20L-G-U-S-X-X-BLAK-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,  
TAPERED DRUM WITH BLACK INTERIOR SHADE.  
LIGHT LEVEL 4  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

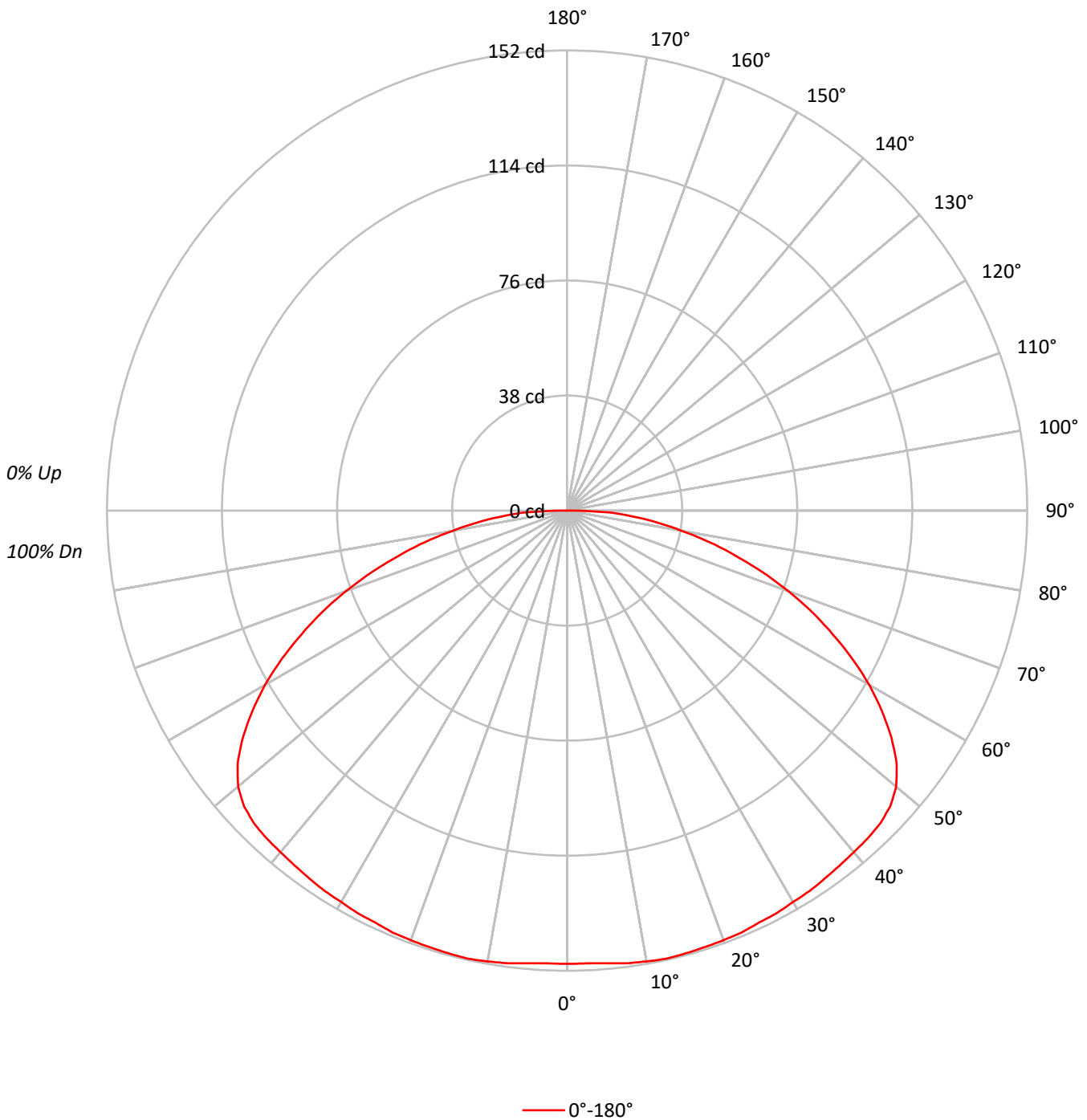
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 628.8 lumens  
Efficiency: N/A  
Efficacy: 28.8 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69  
Luminous Opening: Circular (Dia: 0.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2442
5°	2458
10°	2504
15°	2556
20°	2621
25°	2701
30°	2812
35°	2955
40°	3136
45°	3372
50°	3601
55°	3719
60°	3761
65°	3740
70°	3705
75°	3630
80°	3607
85°	3986

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 5160 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.4	2.3
10°-20°	42.9	6.8
20°-30°	69.5	11.1
30°-40°	93.2	14.8
40°-50°	112.7	17.9
50°-60°	116.4	18.5
60°-70°	95.9	15.2
70°-80°	61.0	9.7
80°-90°	22.9	3.6
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°	126.8	20.2
0°-40°	220.0	35.0
0°-60°	449.0	71.4
0°-90°	628.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	150	
5°	150	14
15°	151	43
25°	150	70
35°	148	93
45°	146	113
55°	131	116
65°	97	96
75°	58	61
85°	21	23
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	149.7
2.5°	149.7
5°	150.1
7.5°	150.8
10°	151.2
12.5°	151.6
15°	151.4
17.5°	151.2
20°	151.0
22.5°	150.8
25°	150.1
27.5°	149.9
30°	149.3
32.5°	149.0
35°	148.4
37.5°	147.8
40°	147.3
42.5°	146.9
45°	146.2
47.5°	144.7
50°	141.9
52.5°	137.2
55°	130.8
57.5°	123.3
60°	115.3
62.5°	106.3
65°	96.9
67.5°	87.6
70°	77.7
72.5°	67.6
75°	57.6
77.5°	48.1
80°	38.4
82.5°	29.8
85°	21.3
87.5°	13.8
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	17.19	18.96	17.56	19.27	19.59	17.19	18.96	17.56	19.27	19.59
	3H	19.27	20.89	19.65	21.21	21.57	19.27	20.89	19.65	21.21	21.57
	4H	20.10	21.63	20.50	21.98	22.35	20.10	21.63	20.50	21.98	22.35
	6H	20.80	22.22	21.21	22.58	22.97	20.80	22.22	21.21	22.58	22.97
	8H	21.07	22.44	21.49	22.82	23.22	21.07	22.44	21.49	22.82	23.22
	12H	21.31	22.62	21.74	23.00	23.43	21.31	22.62	21.74	23.00	23.43
4H	2H	17.92	19.44	18.31	19.79	20.16	17.92	19.44	18.31	19.79	20.16
	3H	20.23	21.52	20.63	21.92	22.32	20.23	21.52	20.63	21.92	22.32
	4H	21.20	22.38	21.63	22.79	23.23	21.20	22.38	21.63	22.79	23.23
	6H	22.05	23.09	22.50	23.53	23.97	22.05	23.09	22.50	23.53	23.97
	8H	22.39	23.37	22.85	23.81	24.27	22.39	23.37	22.85	23.81	24.27
	12H	22.70	23.59	23.18	24.06	24.53	22.70	23.59	23.18	24.06	24.53
8H	4H	21.61	22.59	22.07	23.03	23.49	21.61	22.59	22.07	23.03	23.49
	6H	22.61	23.44	23.10	23.92	24.39	22.61	23.44	23.10	23.92	24.39
	8H	23.06	23.80	23.57	24.30	24.79	23.06	23.80	23.57	24.30	24.79
	12H	23.50	24.15	24.00	24.64	25.20	23.50	24.15	24.00	24.64	25.20
12H	4H	21.68	22.56	22.15	23.04	23.50	21.68	22.56	22.15	23.04	23.50
	6H	22.72	23.46	23.22	23.96	24.44	22.72	23.46	23.22	23.96	24.44
	8H	23.25	23.91	23.75	24.39	24.95	23.25	23.91	23.75	24.39	24.95