

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: P865880

Luminaire Tested: PRLX-2004-S-940-20L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-20L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,
BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

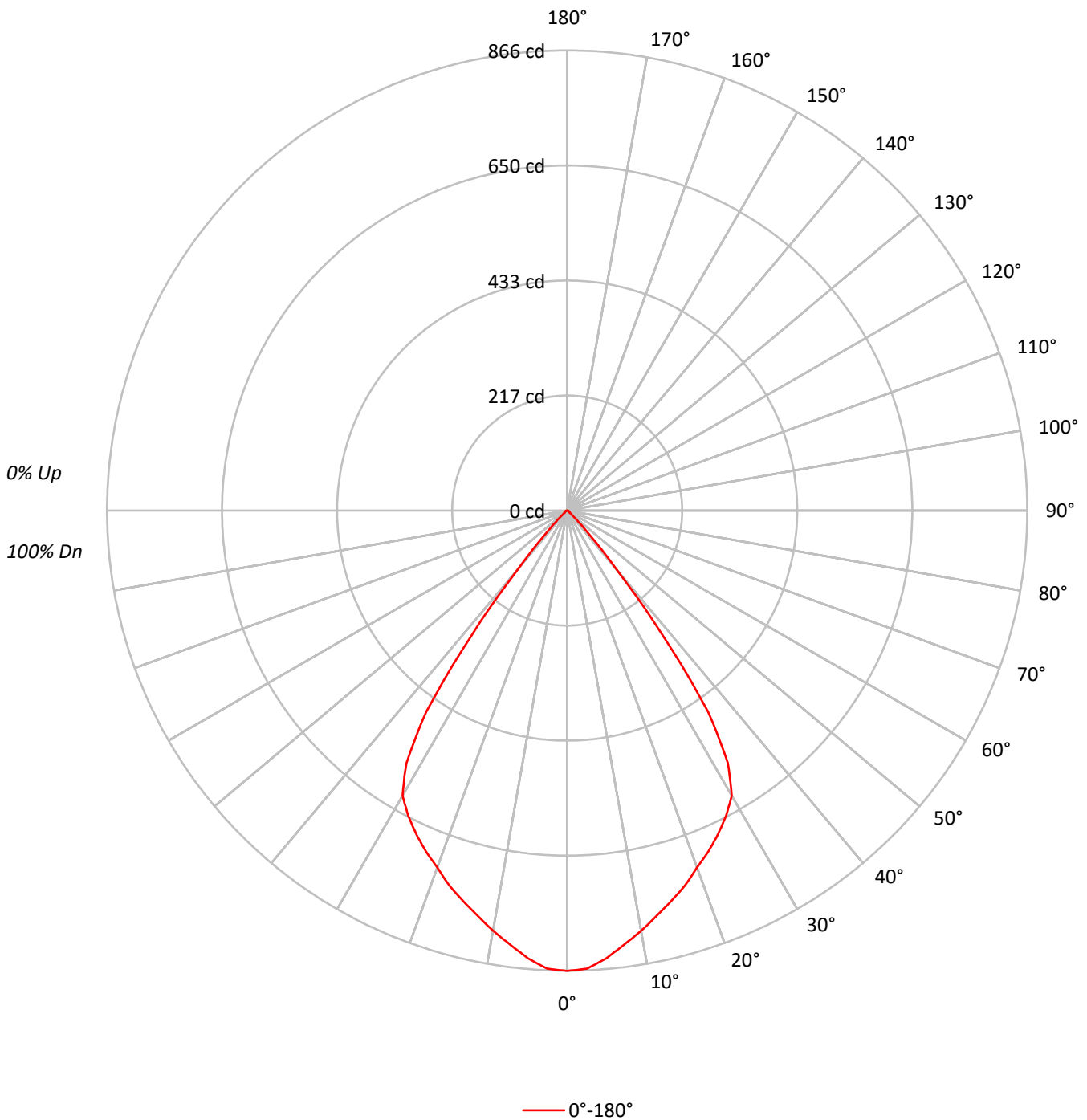
Lumens per Lamp: N/A
Luminaire Lumens: 908.1 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14133
5°	13849
10°	13297
15°	12830
20°	12408
25°	12092
30°	11667
35°	9205
40°	3068
45°	690
50°	190
55°	159
60°	121
65°	143
70°	91
75°	120
80°	178
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	8.7
10°-20°	214.1	23.6
20°-30°	308.9	34.0
30°-40°	261.1	28.7
40°-50°	34.0	3.7
50°-60°	5.0	0.6
60°-70°	3.4	0.4
70°-80°	2.0	0.2
80°-90°	0.3	0.0
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°	602.3	66.3
0°-40°	863.4	95.1
0°-60°	902.4	99.4
0°-90°	908.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	866	
5°	846	79
15°	760	214
25°	672	309
35°	462	261
45°	30	34
55°	6	5
65°	4	3
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	866.5
2.5°	862.8
5°	845.9
7.5°	823.5
10°	802.9
12.5°	780.4
15°	759.8
17.5°	739.2
20°	714.9
22.5°	694.3
25°	671.9
27.5°	647.5
30°	619.5
32.5°	563.3
35°	462.3
37.5°	293.8
40°	144.1
42.5°	67.4
45°	29.9
47.5°	9.4
50°	7.5
52.5°	5.6
55°	5.6
57.5°	5.6
60°	3.7
62.5°	3.7
65°	3.7
67.5°	3.7
70°	1.9
72.5°	1.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.19
	8H	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.18
	12H	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.09	0.57	0.00	0.00	0.00	0.09	0.57
	8H	0.00	0.00	0.00	0.09	0.58	0.00	0.00	0.00	0.09	0.58
	12H	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.54
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.09	0.58	0.00	0.00	0.00	0.09	0.58
	8H	0.00	0.00	0.00	0.05	0.63	0.00	0.00	0.00	0.05	0.63