

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: P865877

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

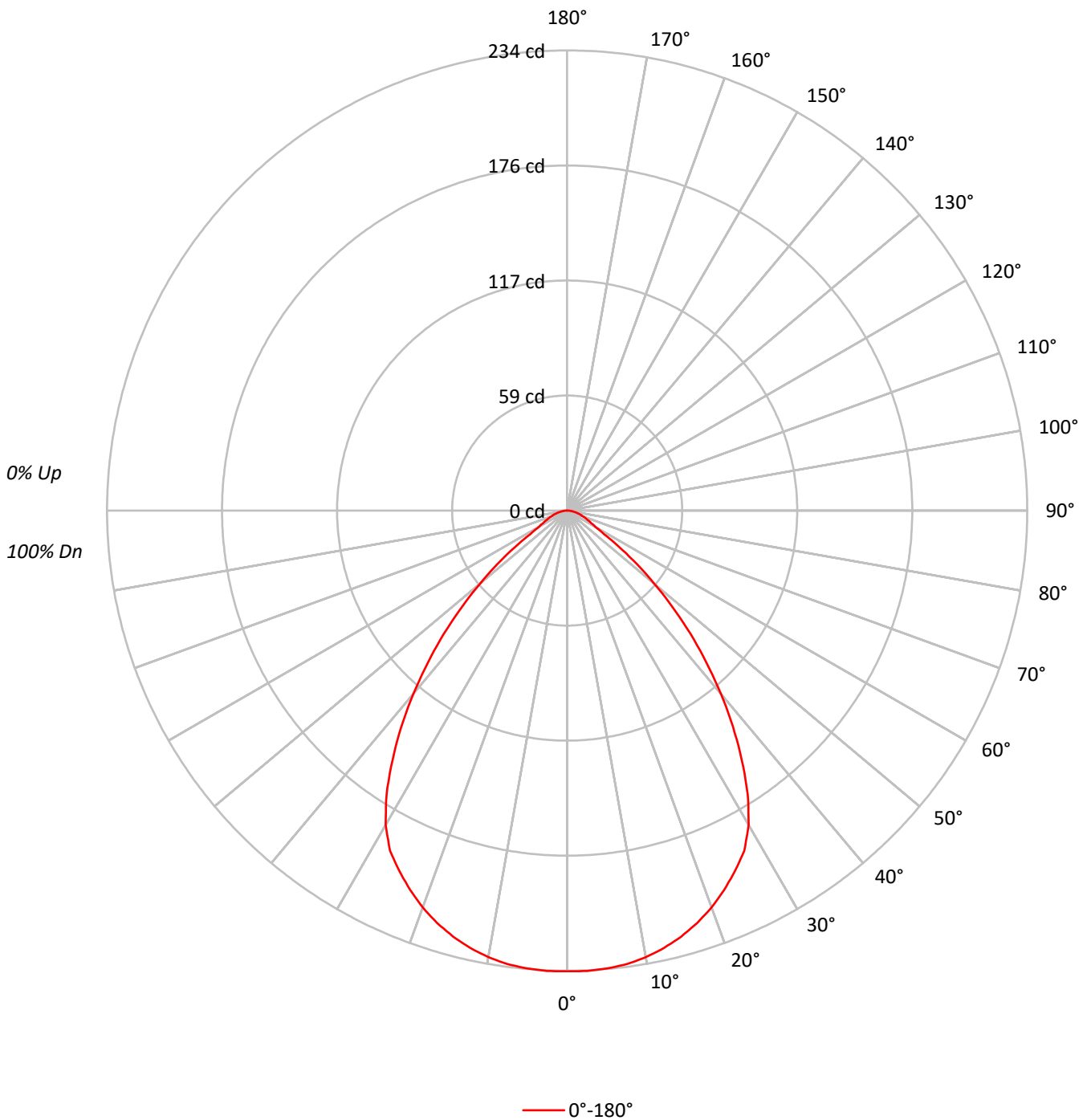
Lumens per Lamp: N/A
Luminaire Lumens: 392.6 lumens
Efficiency: N/A
Efficacy: 18.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.16
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	72
4	91	81	74	69	89	80	73	68	78	72	68		76	71	67		74	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	60	58
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42		51	46	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3821
5°	3826
10°	3819
15°	3786
20°	3727
25°	3637
30°	3475
35°	3082
40°	2589
45°	2046
50°	1467
55°	910
60°	538
65°	455
70°	401
75°	366
80°	319
85°	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2046 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	5.7
10°-20°	63.2	16.1
20°-30°	92.8	23.6
30°-40°	96.2	24.5
40°-50°	68.2	17.4
50°-60°	30.1	7.7
60°-70°	11.9	3.0
70°-80°	6.2	1.6
80°-90°	1.8	0.5
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°	178.2	45.4
0°-40°	274.3	69.9
0°-60°	372.7	94.9
0°-90°	392.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	234	
5°	234	22
15°	224	63
25°	202	93
35°	155	96
45°	89	68
55°	32	30
65°	12	12
75°	6	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	234.3
2.5°	234.3
5°	233.7
7.5°	232.6
10°	230.6
12.5°	227.8
15°	224.2
17.5°	219.9
20°	214.7
22.5°	208.7
25°	202.1
27.5°	195.0
30°	184.5
32.5°	170.9
35°	154.8
37.5°	138.5
40°	121.6
42.5°	104.8
45°	88.7
47.5°	72.6
50°	57.8
52.5°	44.5
55°	32.0
57.5°	22.3
60°	16.5
62.5°	13.8
65°	11.8
67.5°	10.1
70°	8.4
72.5°	7.1
75°	5.8
77.5°	4.7
80°	3.4
82.5°	2.6
85°	1.7
87.5°	0.7
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	7.45	8.74	7.82	9.06	9.37	7.45	8.74	7.82	9.06	9.37
	3H	8.35	9.49	8.73	9.82	10.19	8.35	9.49	8.73	9.82	10.19
	4H	8.71	9.77	9.11	10.12	10.51	8.71	9.77	9.11	10.12	10.51
	6H	8.98	9.95	9.39	10.33	10.72	8.98	9.95	9.39	10.33	10.72
	8H	9.07	9.99	9.50	10.38	10.79	9.07	9.99	9.50	10.38	10.79
	12H	9.13	10.01	9.56	10.40	10.83	9.13	10.01	9.56	10.40	10.83
4H	2H	7.68	8.74	8.08	9.10	9.48	7.68	8.74	8.08	9.10	9.48
	3H	8.80	9.67	9.21	10.07	10.47	8.80	9.67	9.21	10.07	10.47
	4H	9.28	10.05	9.71	10.47	10.91	9.28	10.05	9.71	10.47	10.91
	6H	9.67	10.33	10.13	10.78	11.25	9.67	10.33	10.13	10.78	11.25
	8H	9.80	10.42	10.27	10.86	11.34	9.80	10.42	10.27	10.86	11.34
	12H	9.90	10.45	10.39	10.93	11.41	9.90	10.45	10.39	10.93	11.41
8H	4H	9.42	10.04	9.89	10.49	10.96	9.42	10.04	9.89	10.49	10.96
	6H	9.90	10.41	10.40	10.91	11.39	9.90	10.41	10.40	10.91	11.39
	8H	10.10	10.56	10.62	11.07	11.57	10.10	10.56	10.62	11.07	11.57
	12H	10.28	10.69	10.80	11.18	11.76	10.28	10.69	10.80	11.18	11.76
12H	4H	9.41	9.96	9.89	10.44	10.92	9.41	9.96	9.89	10.44	10.92
	6H	9.91	10.37	10.44	10.89	11.38	9.91	10.37	10.44	10.89	11.38
	8H	10.16	10.57	10.68	11.07	11.64	10.16	10.57	10.68	11.07	11.64