

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: P865890

Luminaire Tested: PRLX-2004-S-940-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

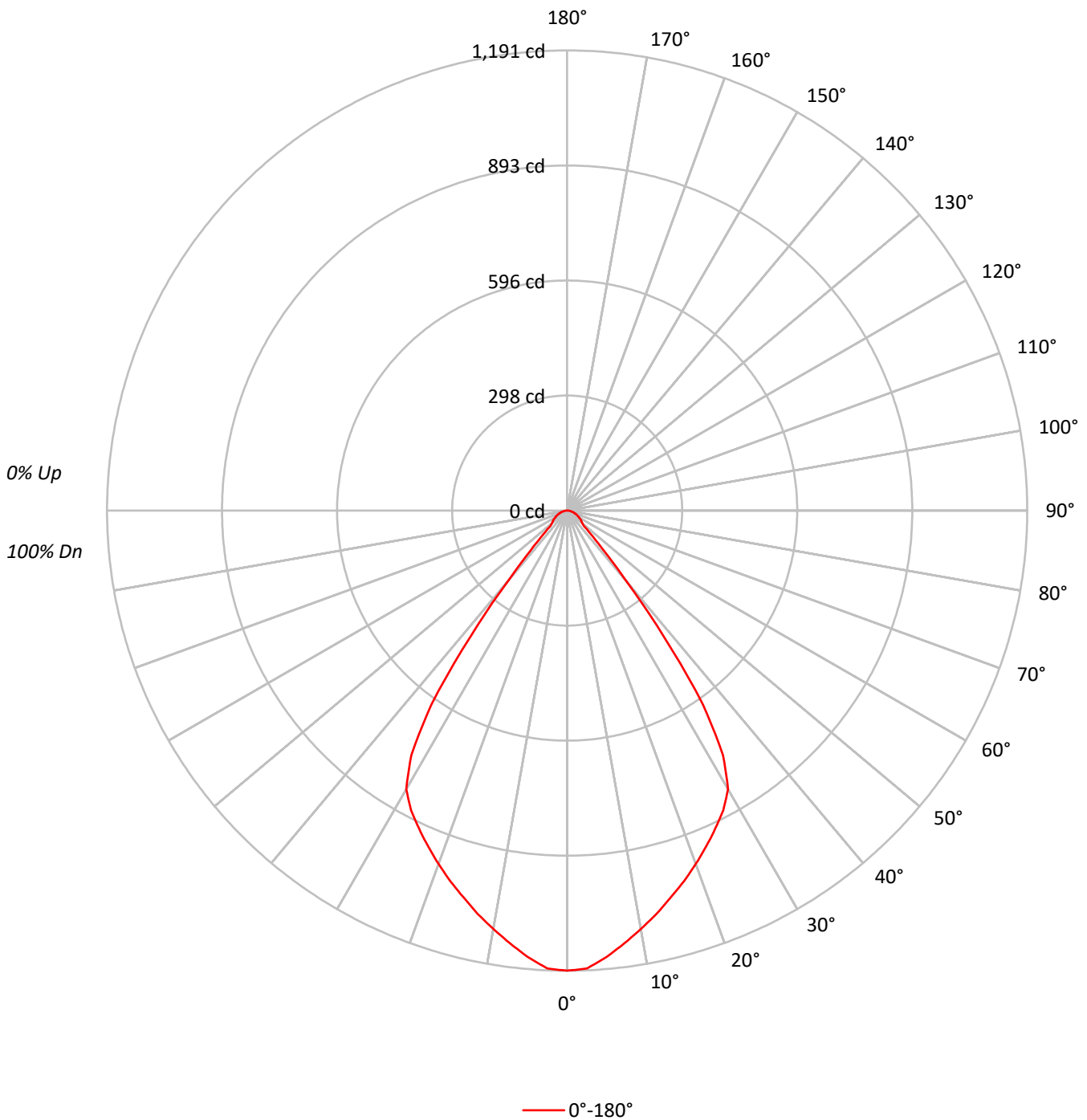
Lumens per Lamp: N/A
Luminaire Lumens: 1343.4 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	58	78	69	63	58	67	62	58	66	61	58	65	61	57	56
8	75	65	59	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52
9	71	61	55	50	70	60	54	50	59	54	50	59	53	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	47	54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19420
5°	18997
10°	18210
15°	17498
20°	16892
25°	16335
30°	15684
35°	12203
40°	5031
45°	1998
50°	1307
55°	1263
60°	1145
65°	1084
70°	1006
75°	1033
80°	883
85°	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	8.1
10°-20°	292.1	21.7
20°-30°	417.7	31.1
30°-40°	355.1	26.4
40°-50°	80.8	6.0
50°-60°	39.0	2.9
60°-70°	28.4	2.1
70°-80°	16.4	1.2
80°-90°	5.1	0.4
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
0°-30°	818.6	60.9
0°-40°	1173.7	87.4
0°-60°	1293.5	96.3
0°-90°	1343.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1191	
5°	1160	109
15°	1036	292
25°	908	418
35°	613	355
45°	87	81
55°	44	39
65°	28	28
75°	16	16
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1190.7
2.5°	1186.1
5°	1160.3
7.5°	1129.9
10°	1099.5
12.5°	1069.1
15°	1036.3
17.5°	1005.9
20°	973.2
22.5°	940.4
25°	907.7
27.5°	874.9
30°	832.8
32.5°	750.9
35°	612.9
37.5°	411.7
40°	236.3
42.5°	138.0
45°	86.6
47.5°	58.5
50°	51.5
52.5°	46.8
55°	44.4
57.5°	39.8
60°	35.1
62.5°	32.8
65°	28.1
67.5°	25.7
70°	21.1
72.5°	18.7
75°	16.4
77.5°	11.7
80°	9.4
82.5°	7.0
85°	4.7
87.5°	2.3
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	7.56	8.63	7.93	8.94	9.26	7.56	8.63	7.93	8.94	9.26
	3H	9.20	10.15	9.59	10.48	10.85	9.20	10.15	9.59	10.48	10.85
	4H	9.88	10.76	10.29	11.11	11.50	9.88	10.76	10.29	11.11	11.50
	6H	10.29	11.09	10.71	11.47	11.86	10.29	11.09	10.71	11.47	11.86
	8H	10.44	11.20	10.88	11.59	12.00	10.44	11.20	10.88	11.59	12.00
	12H	10.56	11.28	10.99	11.66	12.09	10.56	11.28	10.99	11.66	12.09
4H	2H	8.04	8.91	8.45	9.27	9.66	8.04	8.91	8.45	9.27	9.66
	3H	9.88	10.60	10.30	11.01	11.41	9.88	10.60	10.30	11.01	11.41
	4H	10.71	11.35	11.14	11.77	12.22	10.71	11.35	11.14	11.77	12.22
	6H	11.23	11.78	11.70	12.23	12.71	11.23	11.78	11.70	12.23	12.71
	8H	11.43	11.94	11.91	12.39	12.87	11.43	11.94	11.91	12.39	12.87
	12H	11.59	12.04	12.08	12.52	13.00	11.59	12.04	12.08	12.52	13.00
8H	4H	10.93	11.44	11.40	11.89	12.36	10.93	11.44	11.40	11.89	12.36
	6H	11.59	12.00	12.10	12.50	12.98	11.59	12.00	12.10	12.50	12.98
	8H	11.88	12.24	12.41	12.76	13.26	11.88	12.24	12.41	12.76	13.26
	12H	12.13	12.45	12.65	12.95	13.52	12.13	12.45	12.65	12.95	13.52
12H	4H	10.93	11.37	11.42	11.86	12.33	10.93	11.37	11.42	11.86	12.33
	6H	11.63	11.99	12.16	12.51	13.01	11.63	11.99	12.16	12.51	13.01
	8H	11.97	12.29	12.49	12.79	13.37	11.97	12.29	12.49	12.79	13.37