

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: G3-2203-583-6

Luminaire Tested: PRLX-303-FR-120-GDME-DC

Test Date: 6/11/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: G3-2203-583-6  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 6/11/2022  
Issue Date: 6/11/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-303-FR-120-GDME-DC  
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, GOLD METALLIC (OPAQUE) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: PHILIPS  
INTEGRAL TO LAMP

**Summary**

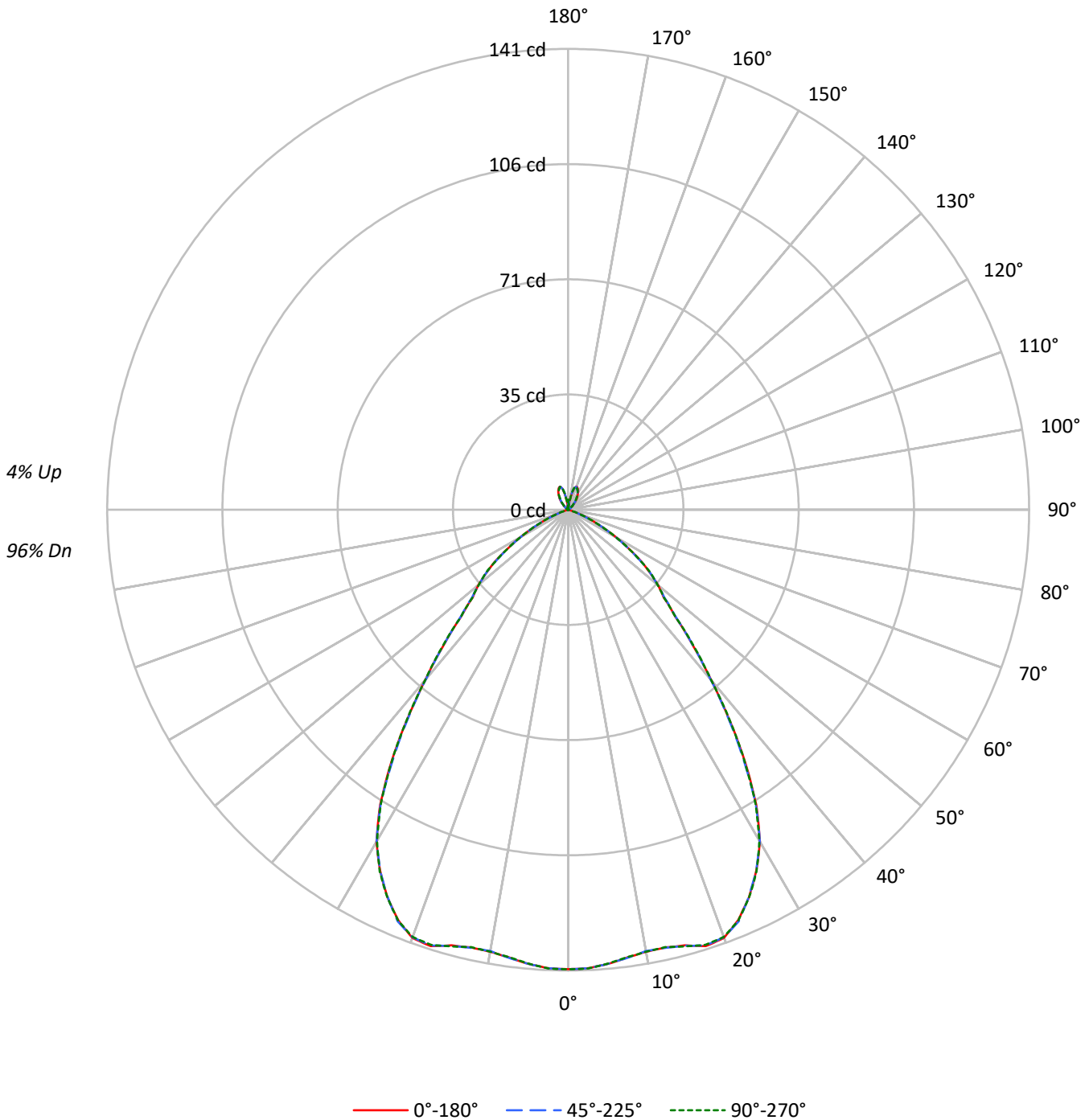
Lumens per Lamp: N/A  
Luminaire Lumens: 252.1 lumens  
Efficiency: N/A  
Efficacy: 34.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.14  
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.71' x H: 0.83')  
CIE Type: Direct

Input Watts (W): 7.4  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0653  
Voltage Rise (V): NR  
Power Factor: 0.9982  
Total Harmonic Distortion (THDi): 70.5%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 7.0 HR  
Ambient Temperature (°C): 24.4  
Test Distance: 24 FT



TEST NUMBER: G3-2203-583-6  
CATALOG NUMBER: PRLX-303-FR-120-GDME-DC

### Luminous Intensity Polar Plot





TEST NUMBER: G3-2203-583-6

CATALOG NUMBER: PRLX-303-FR-120-GDME-DC

**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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	111	108	104	102	108	105	102	100	100	98	96	96	94	92	91	90	89	87				
2	104	97	92	88	101	95	91	87	91	87	84	88	84	82	84	82	79	77				
3	96	88	82	77	94	87	81	76	83	78	74	80	76	73	77	74	71	69				
4	90	80	73	68	88	79	72	67	76	71	66	73	69	65	71	67	64	62				
5	84	73	66	61	82	72	65	60	70	64	59	67	62	58	65	61	57	56				
6	78	67	60	55	76	66	59	54	64	58	53	62	57	53	60	56	52	50				
7	73	62	55	49	72	61	54	49	59	53	49	58	52	48	56	51	47	46				
8	69	57	50	45	67	56	50	45	55	49	44	53	48	44	52	47	43	42				
9	65	53	46	41	63	52	46	41	51	45	41	50	44	40	48	43	40	38				
10	61	49	42	38	60	49	42	38	48	42	37	46	41	37	45	40	37	35				

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

	0°	45°	90°
0°	3016	3016	3016
5°	2724	2622	2722
10°	2477	2309	2477
15°	2330	2121	2335
20°	2228	1979	2224
25°	1999	1742	2001
30°	1730	1481	1725
35°	1356	1133	1351
40°	958	792	958
45°	648	532	648
50°	497	399	495
55°	375	292	371
60°	242	187	239
65°	128	98	128
70°	41	32	41
75°	9	7	9
80°	6	5	6
85°	5	2	3

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 648 cd/sqm



TEST NUMBER: G3-2203-583-6  
 CATALOG NUMBER: PRLX-303-FR-120-GDME-DC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.2	5.3
10°-20°	39.3	15.6
20°-30°	59.8	23.7
30°-40°	58.1	23.0
40°-50°	37.4	14.8
50°-60°	23.6	9.3
60°-70°	9.0	3.6
70°-80°	1.0	0.4
80°-90°	0.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.2	0.1
120°-130°	0.6	0.3
130°-140°	1.7	0.7
140°-150°	2.9	1.1
150°-160°	3.1	1.2
160°-170°	1.8	0.7
170°-180°	0.2	0.1
0°-30°	112.3	44.6
0°-40°	170.4	67.6
0°-60°	231.3	91.8
0°-90°	241.6	95.8
90°-120°	0.2	0.1
90°-150°	5.5	2.2
90°-180°	11.0	4.4
0°-180°	252.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	141	141	141	141	141	
5°	140	140	140	140	139	13
15°	138	138	138	138	138	39
25°	131	131	131	131	131	60
35°	94	94	94	94	94	58
45°	46	46	47	47	46	37
55°	27	26	26	26	27	24
65°	9	9	9	9	9	9
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	1	1	1	1	1	1
135°	2	2	2	2	2	2
145°	5	5	5	4	4	3
155°	7	7	7	7	7	3
165°	6	7	6	7	7	2
175°	1	1	1	1	1	0
180°	3	3	3	3	3	



TEST NUMBER: G3-2203-583-6

CATALOG NUMBER: PRLX-303-FR-120-GDME-DC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	140.6	140.6	140.6	140.6	140.6
2.5°	140.4	140.4	140.4	140.4	140.5
5°	139.5	139.5	139.5	139.5	139.4
7.5°	138.2	138.1	138.3	138.3	138.1
10°	137.3	137.2	137.1	137.2	137.3
12.5°	137.2	137.1	137.3	137.2	137.1
15°	138.0	138.2	138.1	138.0	138.3
17.5°	140.0	139.8	139.8	139.7	139.6
20°	139.4	139.5	139.2	139.4	139.1
22.5°	135.9	135.7	136.3	136.0	136.0
25°	130.8	130.8	130.7	130.9	130.9
27.5°	124.6	124.6	124.5	124.5	124.8
30°	117.3	116.8	117.2	116.8	116.9
32.5°	107.0	106.3	106.7	106.9	106.6
35°	94.4	93.6	93.7	94.5	94.1
37.5°	80.9	80.8	80.5	80.2	81.2
40°	68.0	67.5	67.8	67.6	68.0
42.5°	56.7	56.2	56.6	56.2	57.3
45°	46.5	46.5	46.7	46.7	46.5
47.5°	39.6	39.7	40.0	40.2	39.7
50°	35.8	35.9	35.7	35.9	35.6
52.5°	31.3	31.4	31.5	31.4	31.7
55°	26.9	26.4	26.4	26.4	26.6
57.5°	21.5	21.6	21.4	21.5	21.5
60°	17.1	16.8	16.9	16.9	16.9
62.5°	12.5	12.6	12.6	12.5	12.6
65°	8.9	8.9	8.8	8.8	8.9
67.5°	5.4	5.5	5.5	5.4	5.6
70°	2.8	2.8	2.8	2.9	2.8
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.3	0.4	0.4
85°	0.3	0.2	0.2	0.3	0.2
87.5°	0.1	0.1	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.1	0.0	0.0	0.0	0.1
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.1	0.0	0.1	0.0	0.0
110°	0.0	0.1	0.1	0.1	0.1



TEST NUMBER: G3-2203-583-6

CATALOG NUMBER: PRLX-303-FR-120-GDME-DC

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.2	0.2	0.2	0.2	0.2
117.5°	0.4	0.4	0.4	0.4	0.3
120°	0.4	0.4	0.4	0.4	0.4
122.5°	0.5	0.5	0.5	0.5	0.5
125°	0.7	0.7	0.6	0.7	0.6
127.5°	0.9	0.9	0.9	0.9	0.9
130°	1.3	1.3	1.3	1.3	1.3
132.5°	1.8	1.7	1.7	1.7	1.8
135°	2.3	2.3	2.2	2.1	2.1
137.5°	3.0	2.9	2.8	2.7	2.7
140°	3.6	3.5	3.4	3.3	3.3
142.5°	4.3	4.0	4.0	3.9	3.9
145°	4.8	4.6	4.6	4.5	4.5
147.5°	5.4	5.2	5.2	5.3	5.3
150°	6.0	5.8	5.7	5.9	5.8
152.5°	6.5	6.3	6.2	6.3	6.2
155°	7.0	6.8	6.7	6.8	6.7
157.5°	7.3	7.1	7.1	7.2	7.1
160°	7.5	7.4	7.4	7.6	7.4
162.5°	7.2	7.3	7.2	7.4	7.4
165°	6.5	6.6	6.5	6.6	6.8
167.5°	5.0	5.2	5.2	5.3	5.3
170°	3.1	3.2	3.3	3.3	3.2
172.5°	1.2	1.3	1.3	1.2	1.3
175°	0.7	0.7	0.6	0.6	0.6
177.5°	1.3	1.3	1.2	1.2	1.2
180°	3.1	3.1	3.1	3.1	3.1

(END OF REPORT)