

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: G3-2203-583-10

Luminaire Tested: PRLX-307-FIL-120-DGYS-GDME

Test Date: 6/14/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-10
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/14/2022
Issue Date: 6/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-307-FIL-120-DGYS-GDME
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, DARK GRAY (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

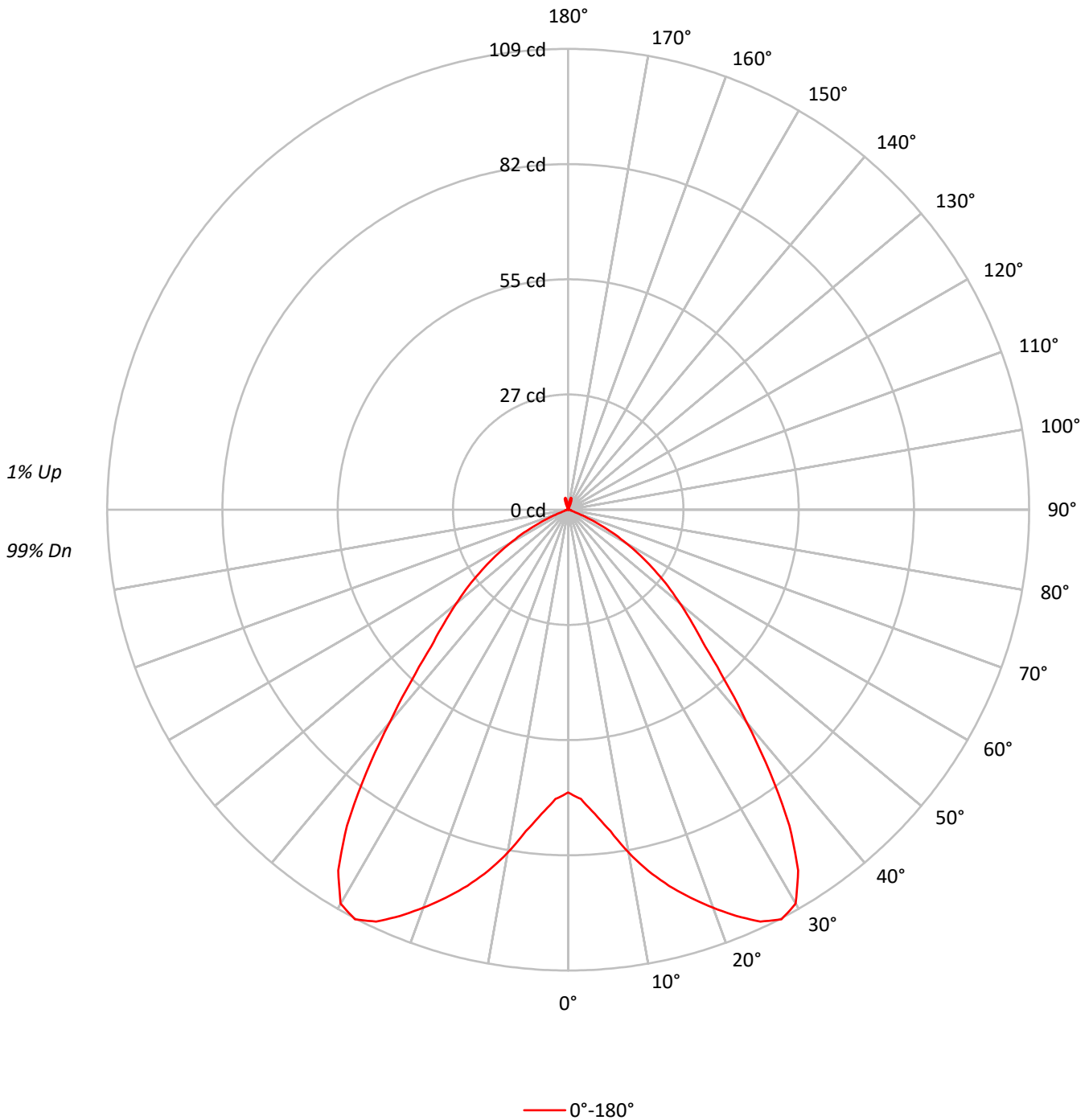
Lumens per Lamp: N/A
Luminaire Lumens: 208.0 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0785
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): 25.0
Test Distance: 24 FT



TEST NUMBER: G3-2203-583-10
CATALOG NUMBER: PRLX-307-FIL-120-DGYS-GDME

Luminous Intensity Polar Plot





TEST NUMBER: G3-2203-583-10
 CATALOG NUMBER: PRLX-307-FIL-120-DGYS-GDME

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		101	101	101	99
1	112	108	105	102	109	106	103	100	101	99	97		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	89	80	72	67	87	78	71	66	76	70	65		73	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	57		65	61	57	55
6	77	66	58	52	75	65	58	52	63	57	52		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55	50	46	44
8	67	55	48	42	66	54	47	42	53	47	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	40	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1620
5°	1552
10°	1603
15°	1647
20°	1670
25°	1690
30°	1613
35°	1315
40°	920
45°	627
50°	466
55°	335
60°	214
65°	103
70°	24
75°	10
80°	7
85°	5

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 627 cd/sqm



TEST NUMBER: G3-2203-583-10

CATALOG NUMBER: PRLX-307-FIL-120-DGYS-GDME

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	3.5
10°-20°	26.3	12.6
20°-30°	49.2	23.7
30°-40°	55.6	26.7
40°-50°	36.6	17.6
50°-60°	22.3	10.7
60°-70°	8.0	3.8
70°-80°	0.9	0.4
80°-90°	0.3	0.2
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.1
150°-160°	0.3	0.1
160°-170°	0.7	0.4
170°-180°	0.1	0.1
0°-30°	82.7	39.8
0°-40°	138.3	66.5
0°-60°	197.2	94.8
0°-90°	206.3	99.2
90°-120°	0.2	0.1
90°-150°	0.5	0.2
90°-180°	2.0	1.0
0°-180°	208.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	67	
5°	72	7
15°	92	26
25°	108	49
35°	91	56
45°	46	37
55°	25	22
65°	8	8
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	3	1
175°	1	0
180°	1	



TEST NUMBER: G3-2203-583-10
CATALOG NUMBER: PRLX-307-FIL-120-DGYS-GDME

CANDELA DISTRIBUTION (FULL):

0°	
0°	66.9
2.5°	68.5
5°	72.2
7.5°	76.7
10°	82.4
12.5°	87.5
15°	92.1
17.5°	96.2
20°	100.2
22.5°	104.0
25°	107.5
27.5°	109.2
30°	107.6
32.5°	101.2
35°	91.2
37.5°	78.4
40°	65.7
42.5°	54.8
45°	45.8
47.5°	39.8
50°	34.5
52.5°	29.7
55°	24.9
57.5°	20.3
60°	15.9
62.5°	11.8
65°	7.6
67.5°	4.3
70°	1.7
72.5°	0.8
75°	0.7
77.5°	0.7
80°	0.5
82.5°	0.5
85°	0.3
87.5°	0.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.1
107.5°	0.1
110°	0.1



TEST NUMBER: G3-2203-583-10
CATALOG NUMBER: PRLX-307-FIL-120-DGYS-GDME

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.1
115°	0.1
117.5°	0.1
120°	0.1
122.5°	0.1
125°	0.1
127.5°	0.1
130°	0.1
132.5°	0.1
135°	0.1
137.5°	0.1
140°	0.2
142.5°	0.1
145°	0.2
147.5°	0.2
150°	0.2
152.5°	0.2
155°	0.4
157.5°	1.2
160°	2.0
162.5°	2.7
165°	2.8
167.5°	2.9
170°	2.5
172.5°	1.6
175°	1.1
177.5°	1.0
180°	0.8

(END OF REPORT)