

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: G3-2203-583-5

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

Test Date: 6/11/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-5
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-FIL-120-GDME-DC
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, GOLD METALLIC (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

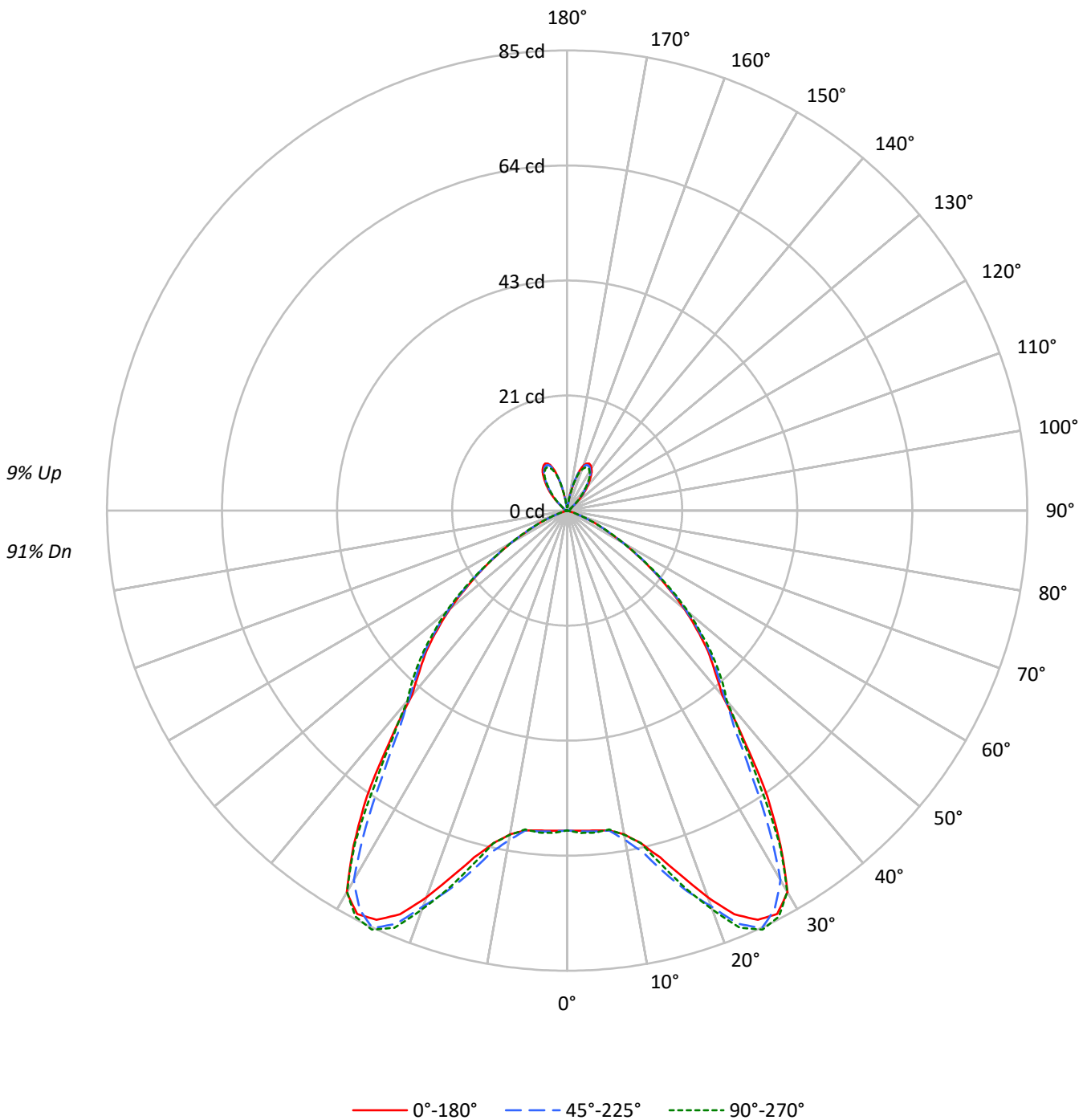
Lumens per Lamp: N/A
Luminaire Lumens: 172.3 lumens
Efficiency: N/A
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.48 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.71' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): 120.0
Input Current (Ain): 0.0768
Voltage Rise (V): NR
Power Factor: 0.9978
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



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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	50	30	10	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91	
1	109	106	103	100	106	103	100	97	97	95	93	92	90	88	87	86	84	87	86	84	82	
2	102	95	90	86	98	93	88	84	88	84	81	84	80	78	79	77	75	79	77	75	72	
3	94	86	79	74	91	84	78	73	80	75	71	76	72	68	72	69	66	72	69	66	64	
4	87	77	70	65	85	76	69	64	72	67	62	69	64	60	66	62	59	66	62	59	57	
5	81	70	63	57	79	69	62	56	66	60	55	63	58	54	60	56	52	60	56	52	50	
6	75	64	56	51	73	63	55	50	60	54	49	58	52	48	55	51	47	55	51	47	45	
7	70	58	51	45	68	57	50	45	55	49	44	53	47	43	51	46	42	51	46	42	40	
8	66	54	46	41	64	53	45	40	51	44	40	49	43	39	47	42	38	47	42	38	36	
9	61	49	42	37	60	48	41	37	47	40	36	45	39	35	44	38	35	44	38	35	33	
10	58	46	38	34	56	45	38	33	43	37	33	42	36	32	40	35	32	40	35	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1268	1268	1268
5°	1158	1119	1166
10°	1095	1041	1097
15°	1120	1063	1145
20°	1215	1106	1253
25°	1275	1134	1305
30°	1201	996	1199
35°	926	714	892
40°	629	531	647
45°	513	427	531
50°	393	321	407
55°	272	218	278
60°	168	133	169
65°	88	68	88
70°	28	21	30
75°	8	5	8
80°	5	4	5
85°	3	2	3

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	3.3
10°-20°	19.8	11.5
20°-30°	39.0	22.6
30°-40°	39.0	22.7
40°-50°	28.6	16.6
50°-60°	17.7	10.3
60°-70°	6.3	3.7
70°-80°	0.7	0.4
80°-90°	0.2	0.1
90°-100°	0.1	0.0
100°-110°	0.3	0.2
110°-120°	0.6	0.3
120°-130°	1.0	0.6
130°-140°	2.7	1.6
140°-150°	4.4	2.6
150°-160°	4.1	2.4
160°-170°	1.8	1.0
170°-180°	0.1	0.1
0°-30°	64.5	37.4
0°-40°	103.6	60.1
0°-60°	149.9	87.0
0°-90°	157.1	91.2
90°-120°	1.0	0.6
90°-150°	9.2	5.3
90°-180°	15.0	8.7
0°-180°	172.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	59	59	59	59	59	
5°	59	59	60	60	60	6
15°	66	69	69	68	68	19
25°	83	87	85	90	85	38
35°	64	64	59	64	62	40
45°	37	37	38	38	38	28
55°	20	19	20	20	20	17
65°	6	6	6	6	6	6
75°	0	0	0	0	0	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°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	4	4	3	3	3	3
145°	8	8	7	7	7	5
155°	10	9	9	9	9	4
165°	6	6	6	6	6	2
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	59.1	59.1	59.1	59.1	59.1
2.5°	59.2	59.2	59.3	59.5	59.6
5°	59.3	59.4	59.5	59.5	59.7
7.5°	59.6	59.6	59.6	59.4	59.4
10°	60.7	61.7	61.8	61.1	60.8
12.5°	62.9	64.8	64.6	64.4	62.9
15°	66.3	69.1	69.2	68.3	67.8
17.5°	70.9	74.2	73.7	73.8	73.3
20°	76.0	79.9	77.8	80.4	78.4
22.5°	80.7	84.7	82.6	87.1	83.4
25°	83.4	87.3	85.1	90.0	85.4
27.5°	84.0	86.7	83.0	88.1	84.6
30°	81.4	82.6	78.8	83.8	81.3
32.5°	73.4	73.9	69.2	76.1	73.0
35°	64.5	63.5	59.0	64.5	62.1
37.5°	53.9	52.3	50.9	53.1	52.9
40°	44.6	45.0	45.4	46.0	45.9
42.5°	40.4	40.7	41.1	41.6	42.2
45°	36.8	37.0	37.5	37.8	38.1
47.5°	32.5	32.9	33.1	33.6	33.6
50°	28.3	28.4	28.7	28.9	29.3
52.5°	23.6	23.9	24.0	24.5	24.6
55°	19.5	19.4	19.7	19.8	19.9
57.5°	15.3	15.3	15.6	15.6	15.5
60°	11.9	11.8	12.0	12.1	12.0
62.5°	8.6	8.7	8.7	8.9	8.9
65°	6.1	6.1	6.1	6.3	6.1
67.5°	3.8	3.9	3.8	3.9	4.0
70°	1.9	1.9	1.9	1.9	2.0
72.5°	0.6	0.6	0.7	0.7	0.7
75°	0.5	0.5	0.4	0.5	0.5
77.5°	0.5	0.4	0.4	0.5	0.4
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.2	0.2	0.3	0.2
85°	0.2	0.2	0.2	0.2	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	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1
100°	0.2	0.2	0.2	0.2	0.2
102.5°	0.3	0.3	0.2	0.2	0.3
105°	0.4	0.3	0.3	0.3	0.4
107.5°	0.4	0.4	0.4	0.4	0.4
110°	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.5	0.6	0.5
115°	0.7	0.6	0.6	0.6	0.6
117.5°	0.7	0.6	0.6	0.6	0.7
120°	0.9	0.8	0.7	0.7	0.8
122.5°	0.9	0.8	0.7	0.8	0.8
125°	1.1	1.0	0.9	1.0	1.0
127.5°	1.4	1.4	1.3	1.3	1.4
130°	2.1	2.0	1.8	1.9	1.8
132.5°	2.9	2.8	2.6	2.6	2.7
135°	3.7	3.6	3.4	3.4	3.3
137.5°	4.9	4.6	4.3	4.2	4.2
140°	5.8	5.6	5.2	5.1	5.0
142.5°	6.7	6.5	6.1	6.0	6.0
145°	7.6	7.5	7.1	7.0	7.0
147.5°	8.4	8.3	8.0	7.8	7.8
150°	9.0	8.9	8.5	8.4	8.3
152.5°	9.4	9.3	9.0	8.7	8.7
155°	9.6	9.4	9.2	8.9	8.8
157.5°	9.4	9.2	9.1	8.8	8.6
160°	8.9	8.7	8.6	8.4	8.1
162.5°	7.8	7.8	7.7	7.6	7.3
165°	6.1	6.3	6.3	6.2	6.1
167.5°	4.3	4.6	4.5	4.3	4.3
170°	2.5	2.6	2.6	2.5	2.6
172.5°	1.1	1.1	1.1	1.1	1.1
175°	0.7	0.7	0.6	0.6	0.6
177.5°	0.7	0.8	0.8	0.7	0.7
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)