

Signify Classified - Internal  
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: G3-2203-583-11

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

Test Date: 6/14/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: G3-2203-583-11  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 6/14/2022  
Issue Date: 6/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-307-FR-120-DGYS-GDME  
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, DARK GRAY (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

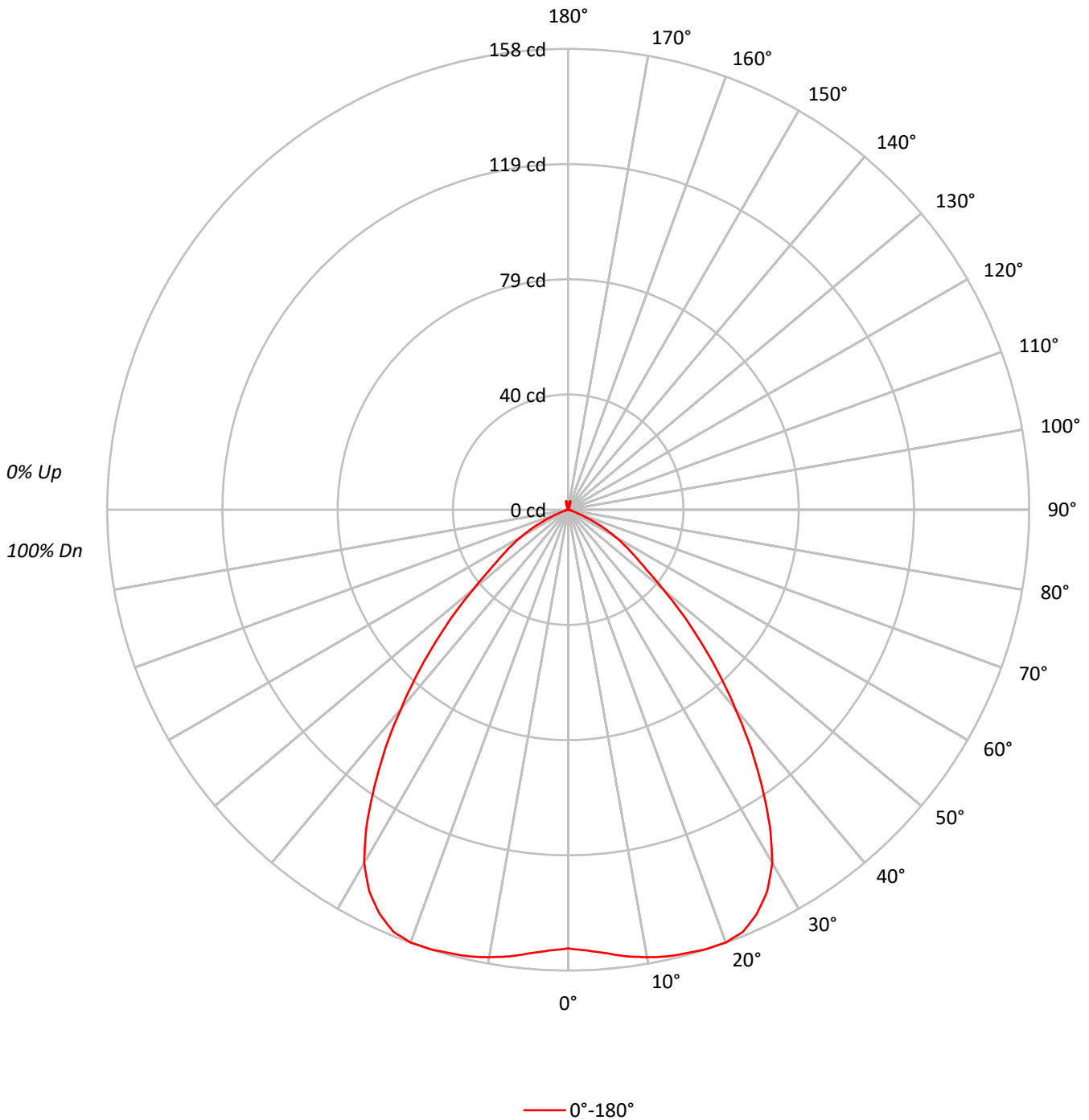
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 289.5 lumens  
Efficiency: N/A  
Efficacy: 38.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.21  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')  
CIE Type: Direct  
  
Input Watts (W): 7.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0671  
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): 24.9  
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	103	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	67		75	71	67		73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54		64	58	54		62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58	52	49	47
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38		47	42	38		46	41	37	36

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

	0°
0°	3643
5°	3282
10°	3030
15°	2815
20°	2632
25°	2404
30°	2097
35°	1668
40°	1249
45°	882
50°	574
55°	375
60°	253
65°	130
70°	30
75°	14
80°	12
85°	8

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 882 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.7	5.1
10°-20°	44.6	15.4
20°-30°	69.9	24.1
30°-40°	71.9	24.8
40°-50°	49.9	17.2
50°-60°	25.7	8.9
60°-70°	9.7	3.4
70°-80°	1.2	0.4
80°-90°	0.5	0.2
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°	0.1	0.0
150°-160°	0.2	0.1
160°-170°	0.8	0.3
170°-180°	0.2	0.1
0°-30°	129.2	44.6
0°-40°	201.0	69.5
0°-60°	276.7	95.6
0°-90°	288.1	99.5
90°-120°	0.0	0.0
90°-150°	0.2	0.1
90°-180°	1.0	0.3
0°-180°	289.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	150	
5°	153	15
15°	157	45
25°	153	70
35°	116	72
45°	64	50
55°	28	26
65°	10	10
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	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	150.4
2.5°	151.3
5°	152.7
7.5°	154.5
10°	155.8
12.5°	156.9
15°	157.4
17.5°	157.9
20°	157.9
22.5°	156.6
25°	152.9
27.5°	147.6
30°	139.9
32.5°	128.6
35°	115.7
37.5°	102.8
40°	89.2
42.5°	76.7
45°	64.4
47.5°	53.3
50°	42.5
52.5°	33.8
55°	27.9
57.5°	23.3
60°	18.8
62.5°	14.2
65°	9.6
67.5°	5.4
70°	2.2
72.5°	1.1
75°	1.0
77.5°	0.9
80°	0.8
82.5°	0.7
85°	0.5
87.5°	0.3
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.1
127.5°	0.1
130°	0.0
132.5°	0.0
135°	0.1
137.5°	0.1
140°	0.1
142.5°	0.1
145°	0.2
147.5°	0.1
150°	0.2
152.5°	0.1
155°	0.3
157.5°	0.9
160°	1.8
162.5°	2.6
165°	3.0
167.5°	3.0
170°	2.8
172.5°	1.7
175°	1.0
177.5°	1.0
180°	1.0

(END OF REPORT)