

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: G3-2203-583-7

Luminaire Tested: PRLX-305-FIL-120-DGYS-GDME

Test Date: 6/13/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-7
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/13/2022
Issue Date: 6/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-305-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

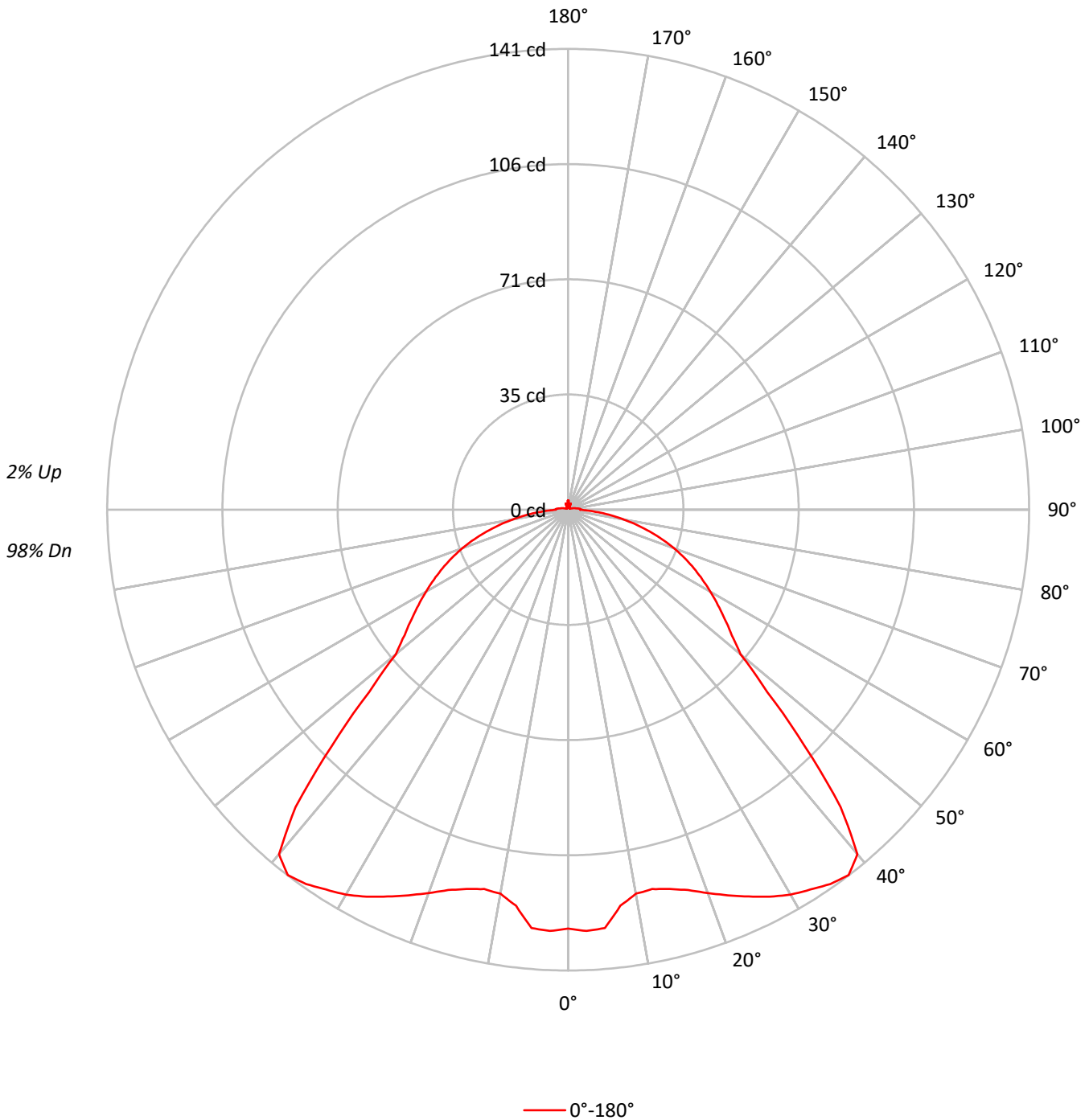
Lumens per Lamp: N/A
Luminaire Lumens: 414.3 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.64 / 1.64 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 1.42' x L: 1.42' x H: 1.42')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
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): 24.5
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	110	110	110		105	105	105		100	100	100	98
1	108	103	99	95	105	101	97	94	96	93	90		92	89	87		88	86	84	82
2	99	90	84	78	96	88	82	77	84	79	75		81	77	73		78	74	71	69
3	90	80	72	65	87	78	70	64	75	68	63		72	66	62		69	64	60	58
4	83	71	62	55	80	69	61	55	66	59	54		64	58	53		61	56	52	50
5	76	63	54	48	74	62	54	47	60	52	47		57	51	46		55	50	45	43
6	70	57	48	42	68	56	48	41	54	46	41		52	45	40		50	44	40	38
7	65	52	43	37	63	51	42	37	49	42	36		47	41	36		46	40	35	33
8	60	47	39	33	59	46	38	33	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	688
5°	636
10°	552
15°	526
20°	522
25°	527
30°	534
35°	538
40°	524
45°	388
50°	262
55°	225
60°	197
65°	171
70°	144
75°	113
80°	80
85°	46

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 388 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	2.9
10°-20°	34.3	8.3
20°-30°	60.6	14.6
30°-40°	87.3	21.1
40°-50°	78.9	19.0
50°-60°	52.6	12.7
60°-70°	42.0	10.1
70°-80°	27.2	6.6
80°-90°	10.6	2.5
90°-100°	3.6	0.9
100°-110°	1.9	0.5
110°-120°	0.9	0.2
120°-130°	0.5	0.1
130°-140°	0.5	0.1
140°-150°	0.4	0.1
150°-160°	0.6	0.2
160°-170°	0.4	0.1
170°-180°	0.2	0.0
0°-30°	106.8	25.8
0°-40°	194.0	46.8
0°-60°	325.6	78.6
0°-90°	405.3	97.8
90°-120°	6.4	1.6
90°-150°	7.9	1.9
90°-180°	9.0	2.2
0°-180°	414.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	128	
5°	128	12
15°	120	34
25°	131	61
35°	140	87
45°	102	79
55°	58	53
65°	42	42
75°	26	27
85°	9	9
90°	4	2
95°	3	3
105°	2	2
115°	1	1
125°	0	1
135°	1	1
145°	1	0
155°	2	1
165°	1	0
175°	2	0
180°	3	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	128.2
2.5°	129.0
5°	128.5
7.5°	122.2
10°	119.3
12.5°	118.9
15°	120.1
17.5°	122.0
20°	124.8
22.5°	127.7
25°	130.6
27.5°	133.5
30°	136.0
32.5°	137.8
35°	139.8
37.5°	140.9
40°	137.6
42.5°	123.4
45°	102.4
47.5°	82.6
50°	68.8
52.5°	63.1
55°	58.5
57.5°	54.3
60°	50.2
62.5°	46.3
65°	42.4
67.5°	38.5
70°	34.4
72.5°	30.1
75°	25.7
77.5°	21.5
80°	17.2
82.5°	13.3
85°	9.3
87.5°	5.7
90°	3.7
92.5°	3.8
95°	3.4
97.5°	3.0
100°	2.4
102.5°	2.1
105°	1.8
107.5°	1.5
110°	1.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.1
115°	0.9
117.5°	0.7
120°	0.6
122.5°	0.6
125°	0.5
127.5°	0.6
130°	0.6
132.5°	0.6
135°	0.7
137.5°	0.7
140°	0.6
142.5°	0.7
145°	0.7
147.5°	0.7
150°	0.8
152.5°	0.9
155°	1.6
157.5°	2.0
160°	1.7
162.5°	1.1
165°	1.2
167.5°	1.2
170°	1.3
172.5°	1.6
175°	2.2
177.5°	2.8
180°	2.7

(END OF REPORT)