

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: G2-2210-802-26

Luminaire Tested: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-26
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/11/2023
Issue Date: 1/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS 60W CLEAR BULB
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

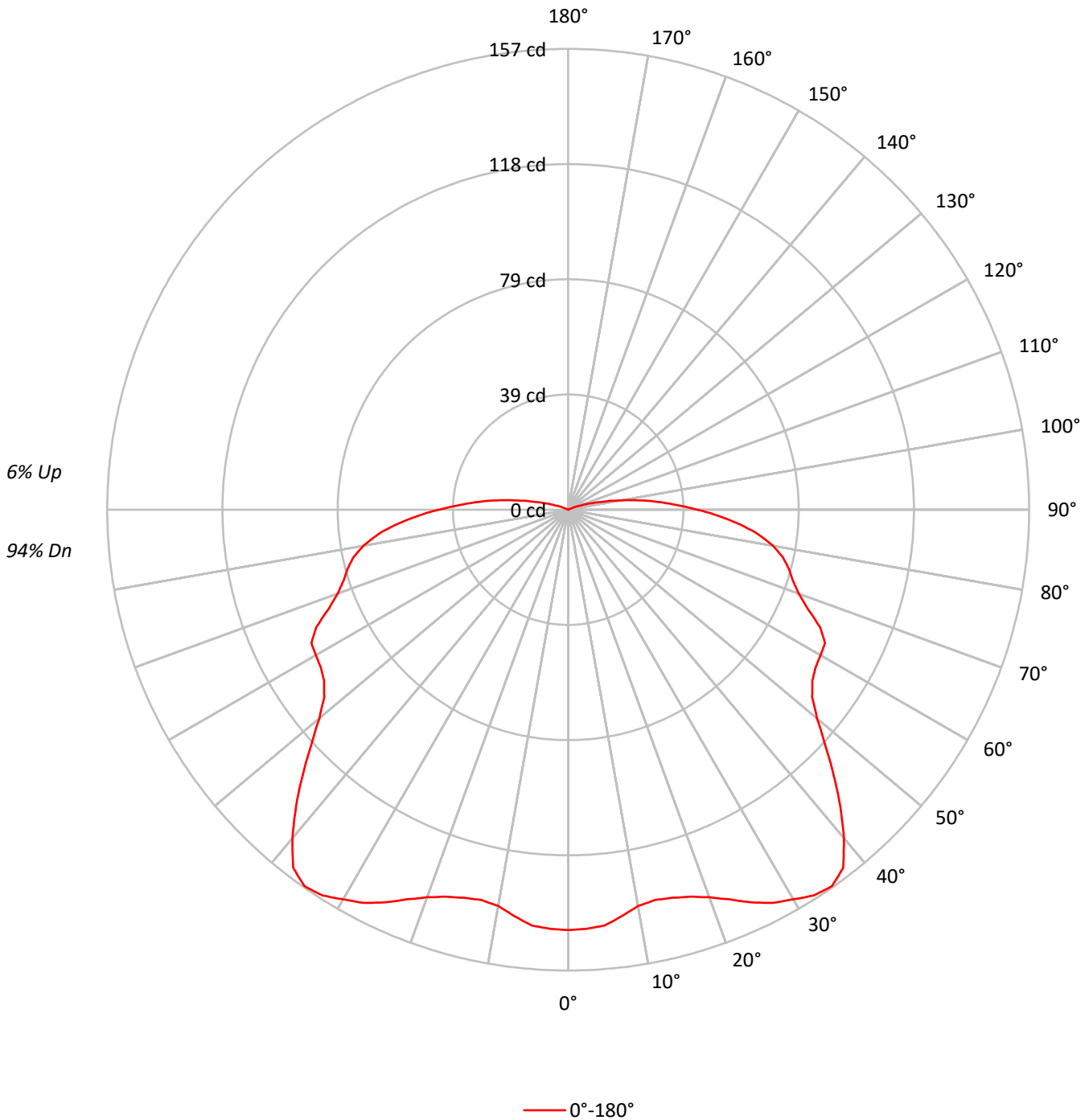
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.6 / 1.6 / 1.56
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0795
Voltage Rise (V): NR
Power Factor: 0.8148
Total Harmonic Distortion (THDi): 70.9%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.7
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-26
CATALOG NUMBER: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-26

CATALOG NUMBER: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	103	97	91	86	100	94	88	84	88	84	80	83	79	76	78	75	73	70
2	92	82	74	67	89	80	72	65	75	68	63	70	65	60	66	62	58	55
3	83	71	61	54	80	69	60	53	65	57	51	61	55	49	57	52	47	45
4	76	62	52	44	73	60	51	44	57	49	42	54	47	41	51	45	40	37
5	69	55	45	38	67	53	44	37	50	42	36	48	41	35	45	39	34	31
6	64	49	39	32	61	48	39	32	45	37	31	43	36	30	41	34	29	27
7	59	44	35	28	57	43	34	28	41	33	27	39	32	26	37	31	26	24
8	55	40	31	25	53	39	31	25	37	29	24	35	28	23	34	28	23	21
9	51	37	28	22	49	36	28	22	34	27	21	33	26	21	31	25	20	18
10	48	34	25	20	46	33	25	20	31	24	19	30	23	19	29	23	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	783
5°	737
10°	681
15°	657
20°	657
25°	678
30°	698
35°	711
40°	667
45°	592
50°	523
55°	494
60°	502
65°	502
70°	470
75°	469
80°	464
85°	428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 592 cd/sqm



TEST NUMBER: G2-2210-802-26

CATALOG NUMBER: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	1.9
10°-20°	39.0	5.6
20°-30°	68.4	9.9
30°-40°	96.7	14.0
40°-50°	98.8	14.3
50°-60°	92.1	13.3
60°-70°	92.4	13.4
70°-80°	82.0	11.9
80°-90°	63.7	9.2
90°-100°	33.6	4.9
100°-110°	10.3	1.5
110°-120°	1.0	0.1
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	120.8	17.5
0°-40°	217.4	31.5
0°-60°	408.3	59.1
0°-90°	646.4	93.5
90°-120°	44.8	6.5
90°-150°	44.8	6.5
90°-180°	45.0	6.5
0°-180°	691.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	143	
5°	142	13
15°	137	39
25°	148	68
35°	157	97
45°	128	99
55°	102	92
65°	95	92
75°	78	82
85°	59	51
90°	44	24
95°	31	23
105°	9	10
115°	0	1
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



TEST NUMBER: G2-2210-802-26

CATALOG NUMBER: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	143.2
2.5°	142.9
5°	142.2
7.5°	139.7
10°	137.1
12.5°	136.2
15°	136.9
17.5°	138.2
20°	140.5
22.5°	143.7
25°	147.6
27.5°	151.0
30°	153.3
32.5°	155.8
35°	156.6
37.5°	153.8
40°	146.1
42.5°	137.2
45°	127.9
47.5°	118.7
50°	110.6
52.5°	104.7
55°	101.5
57.5°	99.9
60°	99.2
62.5°	98.6
65°	94.6
67.5°	88.3
70°	83.5
72.5°	80.2
75°	77.8
77.5°	74.9
80°	70.8
82.5°	65.6
85°	59.1
87.5°	51.7
90°	44.0
92.5°	37.0
95°	30.6
97.5°	24.4
100°	18.4
102.5°	13.1
105°	8.8
107.5°	5.7
110°	3.5



TEST NUMBER: G2-2210-802-26

CATALOG NUMBER: PRLX-415-FIL-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)