

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: G2-2210-802-25

Luminaire Tested: PRLX-413-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-25  
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-413-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

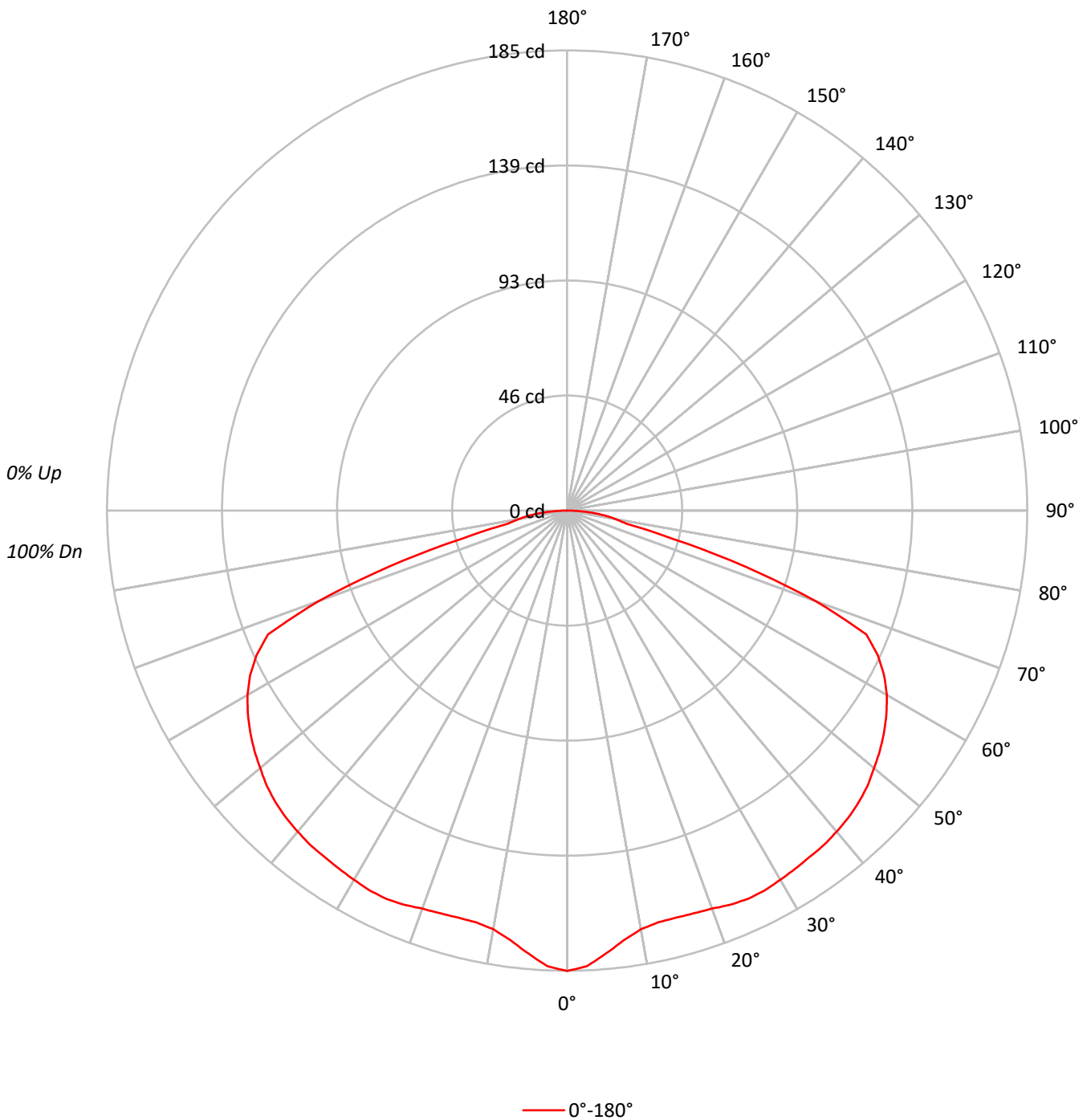
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 717.1 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.41 / 1.62  
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')  
CIE Type: Direct

Input Watts (W): 7.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0795  
Voltage Rise (V): NR  
Power Factor: 0.815  
Total Harmonic Distortion (THDi): 70.6%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.5  
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-25  
CATALOG NUMBER: PRLX-413-FIL-120-WHST-RHL-TFIN-DW-WH

### Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-25

CATALOG NUMBER: PRLX-413-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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	74	94	86	79	73	82	77	72		79	74	70		76	72	68	66
3	87	76	67	60	85	74	66	59	71	64	58		68	62	57		66	61	56	54
4	79	66	57	49	77	65	56	49	62	54	48		60	53	48		58	52	47	45
5	72	58	49	41	70	57	48	41	55	47	41		53	46	40		51	45	40	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	35		46	39	34	32
7	61	47	37	31	59	46	37	31	44	36	30		43	35	30		41	35	30	28
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	53	38	30	24	51	38	30	24	37	29	24		36	29	24		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	26	21	19

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

	0°
0°	1012
5°	917
10°	831
15°	789
20°	766
25°	755
30°	739
35°	726
40°	718
45°	710
50°	700
55°	690
60°	678
65°	654
70°	529
75°	233
80°	112
85°	61

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 710 cd/sqm



TEST NUMBER: G2-2210-802-25

CATALOG NUMBER: PRLX-413-FIL-120-WHST-RHL-TFIN-DW-WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.8	2.3
10°-20°	48.1	6.7
20°-30°	79.5	11.1
30°-40°	106.8	14.9
40°-50°	128.1	17.9
50°-60°	139.2	19.4
60°-70°	133.5	18.6
70°-80°	54.4	7.6
80°-90°	10.8	1.5
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°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	144.4	20.1
0°-40°	251.2	35.0
0°-60°	518.4	72.3
0°-90°	717.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	185	
5°	179	17
15°	169	48
25°	172	79
35°	170	107
45°	166	128
55°	156	139
65°	138	134
75°	44	54
85°	10	11
90°	0	



TEST NUMBER: G2-2210-802-25

CATALOG NUMBER: PRLX-413-FIL-120-WHST-RHL-TFIN-DW-WH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	185.1
2.5°	183.3
5°	178.8
7.5°	174.2
10°	170.9
12.5°	169.5
15°	169.4
17.5°	169.7
20°	170.3
22.5°	171.5
25°	172.2
27.5°	172.1
30°	171.4
32.5°	170.7
35°	170.0
37.5°	169.5
40°	168.5
42.5°	167.4
45°	165.8
47.5°	163.8
50°	161.1
52.5°	158.5
55°	155.5
57.5°	152.2
60°	148.4
62.5°	143.7
65°	137.8
67.5°	130.2
70°	106.2
72.5°	75.3
75°	44.2
77.5°	24.4
80°	19.8
82.5°	15.3
85°	9.9
87.5°	4.6
90°	0.0

(END OF REPORT)