

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: G2-2210-802-20

Luminaire Tested: PRLX-403-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 01/04/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-20
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/04/23
Issue Date: 01/04/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-403-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

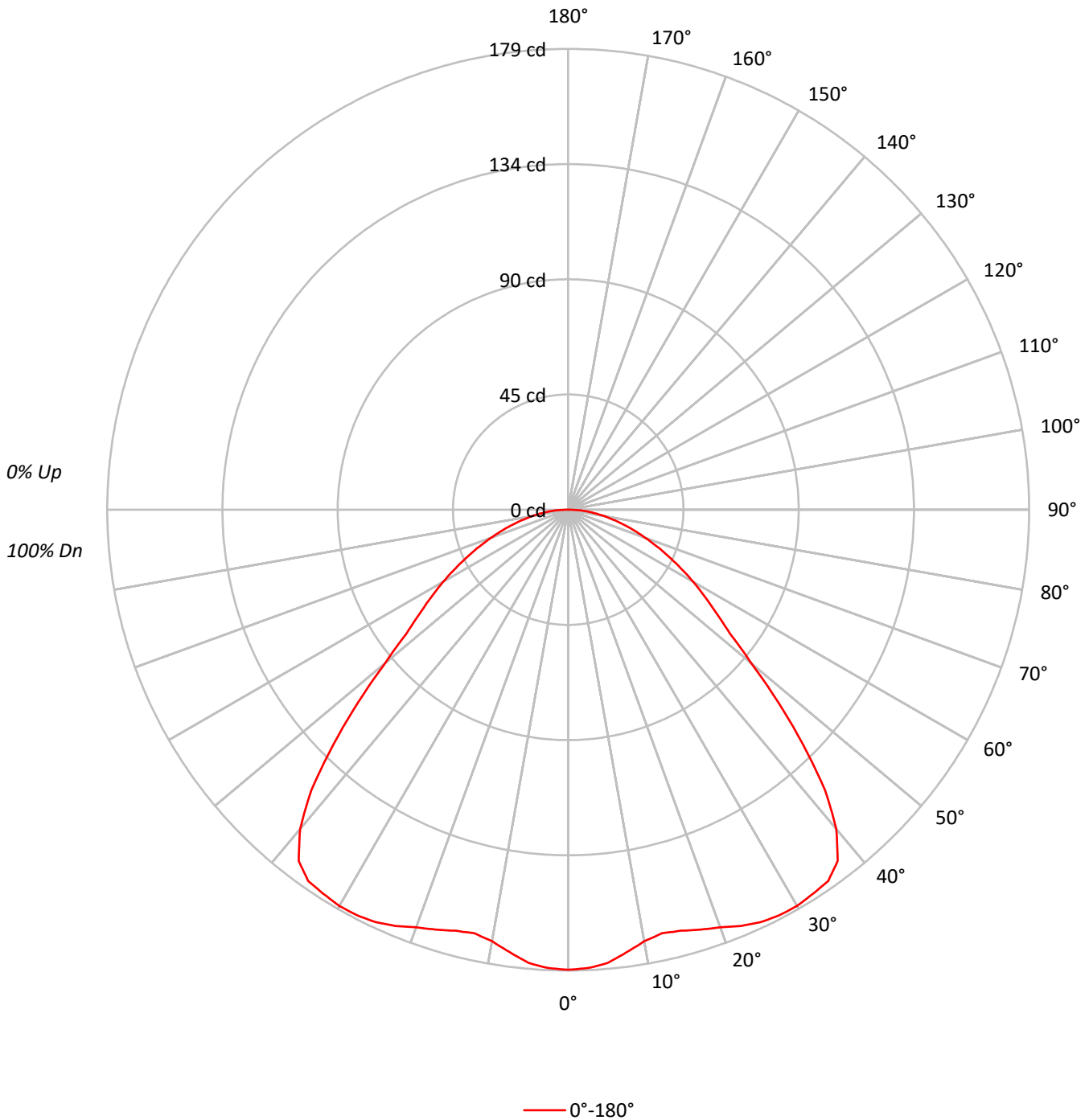
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 492.7 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.42
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8154
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5510
5°	4743
10°	4072
15°	3679
20°	3460
25°	3312
30°	3147
35°	2977
40°	2640
45°	2042
50°	1442
55°	1080
60°	858
65°	661
70°	493
75°	353
80°	229
85°	118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2042 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	3.4
10°-20°	48.3	9.8
20°-30°	81.6	16.6
30°-40°	108.9	22.1
40°-50°	98.8	20.1
50°-60°	64.1	13.0
60°-70°	42.9	8.7
70°-80°	23.7	4.8
80°-90°	7.7	1.6
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°	146.5	29.7
0°-40°	255.4	51.8
0°-60°	418.3	84.9
0°-90°	492.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	179	
5°	177	17
15°	169	48
25°	177	82
35°	176	109
45°	129	99
55°	70	64
65°	43	43
75°	22	24
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	178.7
2.5°	178.2
5°	176.7
7.5°	173.4
10°	170.2
12.5°	168.5
15°	169.3
17.5°	171.0
20°	172.6
22.5°	175.0
25°	176.8
27.5°	177.6
30°	177.7
32.5°	176.9
35°	176.0
37.5°	171.9
40°	161.9
42.5°	147.6
45°	128.8
47.5°	110.4
50°	92.8
52.5°	79.3
55°	70.3
57.5°	63.0
60°	56.1
62.5°	49.3
65°	43.1
67.5°	37.3
70°	31.8
72.5°	26.9
75°	22.3
77.5°	17.9
80°	14.1
82.5°	10.4
85°	7.0
87.5°	3.9
90°	0.0

(END OF REPORT)