

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: G2-2210-802-23

Luminaire Tested: PRLX-409-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/7/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-23
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/7/2023
Issue Date: 1/7/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-409-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

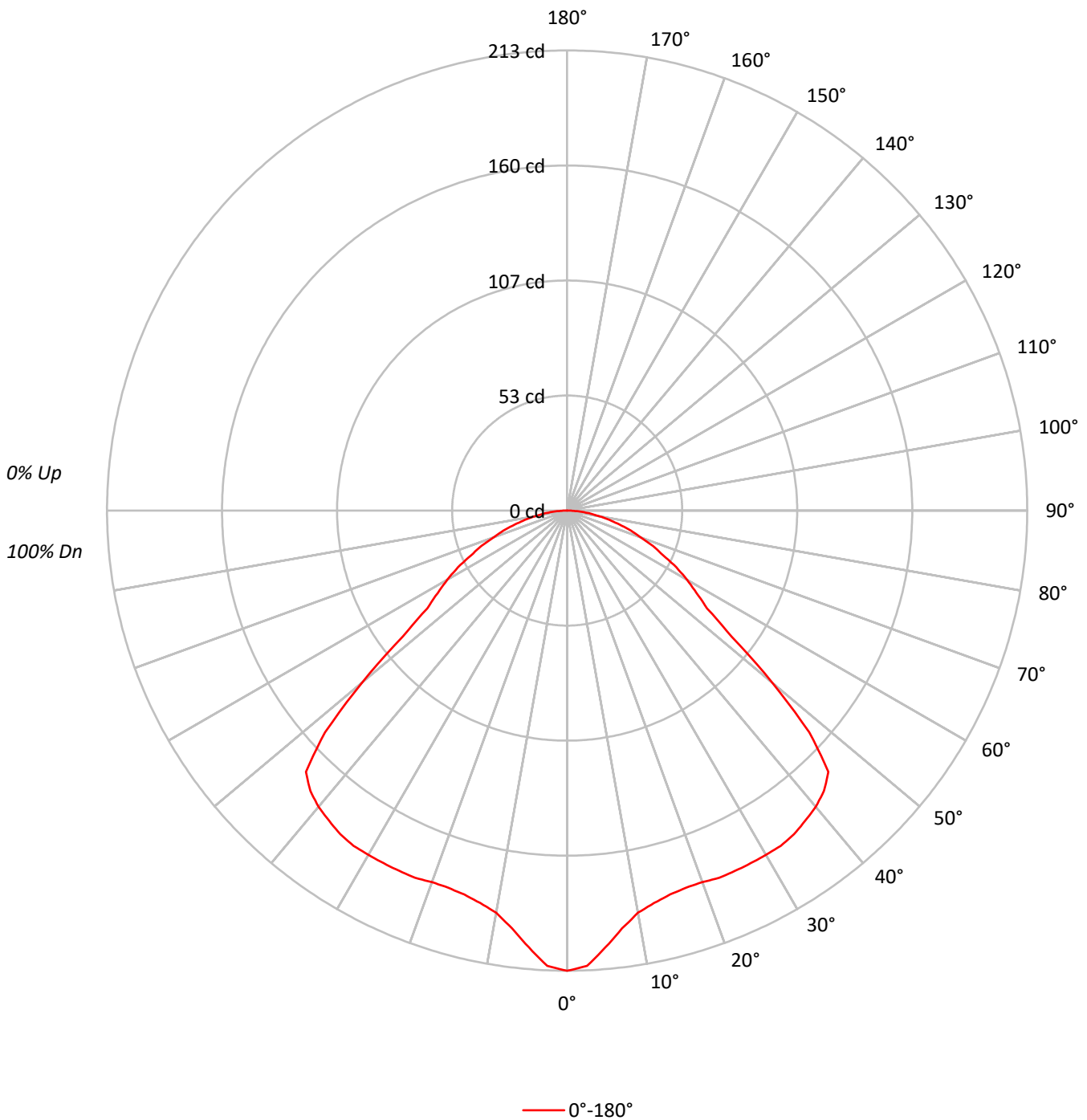
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 555.7 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.48
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
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: 0.815
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.7
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	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	92	90	91	89	88	86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53				
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46				
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41				
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2145
5°	1846
10°	1578
15°	1430
20°	1340
25°	1283
30°	1233
35°	1189
40°	1138
45°	1071
50°	772
55°	492
60°	402
65°	313
70°	236
75°	169
80°	106
85°	52

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1071 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	3.4
10°-20°	52.3	9.4
20°-30°	85.1	15.3
30°-40°	114.5	20.6
40°-50°	125.4	22.6
50°-60°	75.8	13.6
60°-70°	49.2	8.9
70°-80°	26.8	4.8
80°-90°	7.8	1.4
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°	156.3	28.1
0°-40°	270.8	48.7
0°-60°	472.0	84.9
0°-90°	555.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	555.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	213	
5°	203	19
15°	184	52
25°	184	85
35°	183	115
45°	171	125
55°	79	76
65°	49	49
75°	25	27
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	213
2.5°	211
5°	203
7.5°	195
10°	189
12.5°	186
15°	184
17.5°	183
20°	183
22.5°	184
25°	184
27.5°	184
30°	184
32.5°	184
35°	183
37.5°	181
40°	179
42.5°	176
45°	171
47.5°	152
50°	124
52.5°	96
55°	79
57.5°	71
60°	64
62.5°	57
65°	49
67.5°	43
70°	36
72.5°	31
75°	25
77.5°	20
80°	15
82.5°	11
85°	7
87.5°	3
90°	0

(END OF REPORT)