

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: G2-2210-802-22

Luminaire Tested: PRLX-407-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/5/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-22
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/5/2023
Issue Date: 1/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-407-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

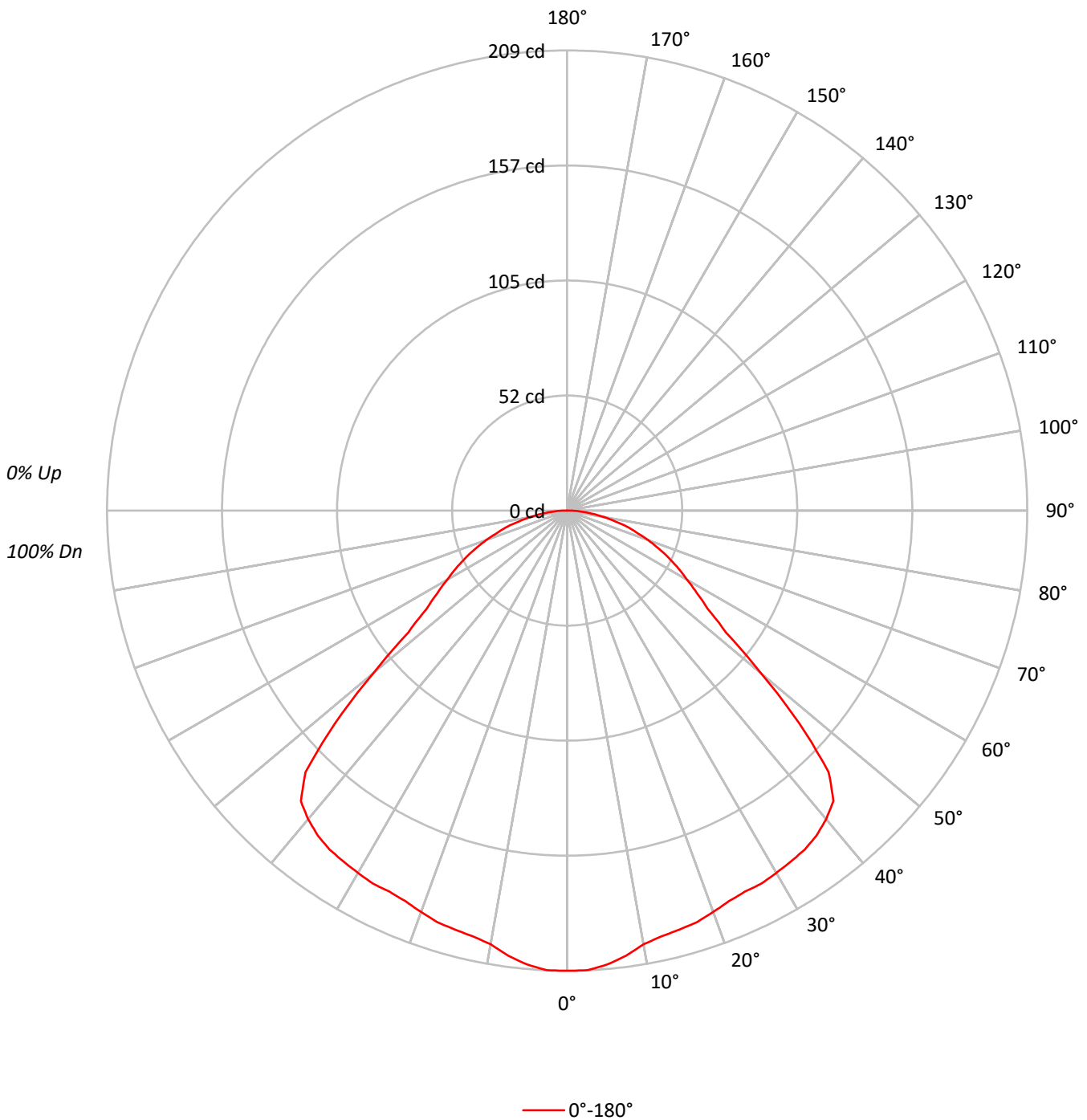
Lumens per Lamp: N/A
Luminaire Lumens: 566.3 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.47
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0794
Voltage Rise (V): NR
Power Factor: 0.8153
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.1
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-22

CATALOG NUMBER: PRLX-407-FIL-120-WHST-RHL-TFIN-DW-WH

Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-22

CATALOG NUMBER: PRLX-407-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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	50	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2104
5°	1883
10°	1670
15°	1531
20°	1420
25°	1331
30°	1273
35°	1222
40°	1163
45°	1052
50°	716
55°	486
60°	396
65°	326
70°	255
75°	189
80°	120
85°	59

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1052 cd/sqm



TEST NUMBER: G2-2210-802-22

CATALOG NUMBER: PRLX-407-FIL-120-WHST-RHL-TFIN-DW-WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	3.5
10°-20°	55.8	9.8
20°-30°	88.6	15.6
30°-40°	117.6	20.8
40°-50°	123.0	21.7
50°-60°	73.2	12.9
60°-70°	50.5	8.9
70°-80°	29.3	5.2
80°-90°	8.8	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°	163.9	28.9
0°-40°	281.5	49.7
0°-60°	477.7	84.4
0°-90°	566.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	209	
5°	207	20
15°	197	56
25°	191	89
35°	188	118
45°	168	123
55°	78	73
65°	51	50
75°	28	29
85°	8	9
90°	0	



TEST NUMBER: G2-2210-802-22

CATALOG NUMBER: PRLX-407-FIL-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	209
2.5°	209
5°	207
7.5°	204
10°	200
12.5°	198
15°	197
17.5°	196
20°	194
22.5°	192
25°	191
27.5°	191
30°	190
32.5°	189
35°	188
37.5°	186
40°	183
42.5°	179
45°	168
47.5°	143
50°	115
52.5°	91
55°	78
57.5°	70
60°	63
62.5°	57
65°	51
67.5°	45
70°	39
72.5°	33
75°	28
77.5°	22
80°	17
82.5°	12
85°	8
87.5°	4
90°	0

(END OF REPORT)