

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: G2-2210-802-29

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

Test Date: 01/04/23



**Test Information**

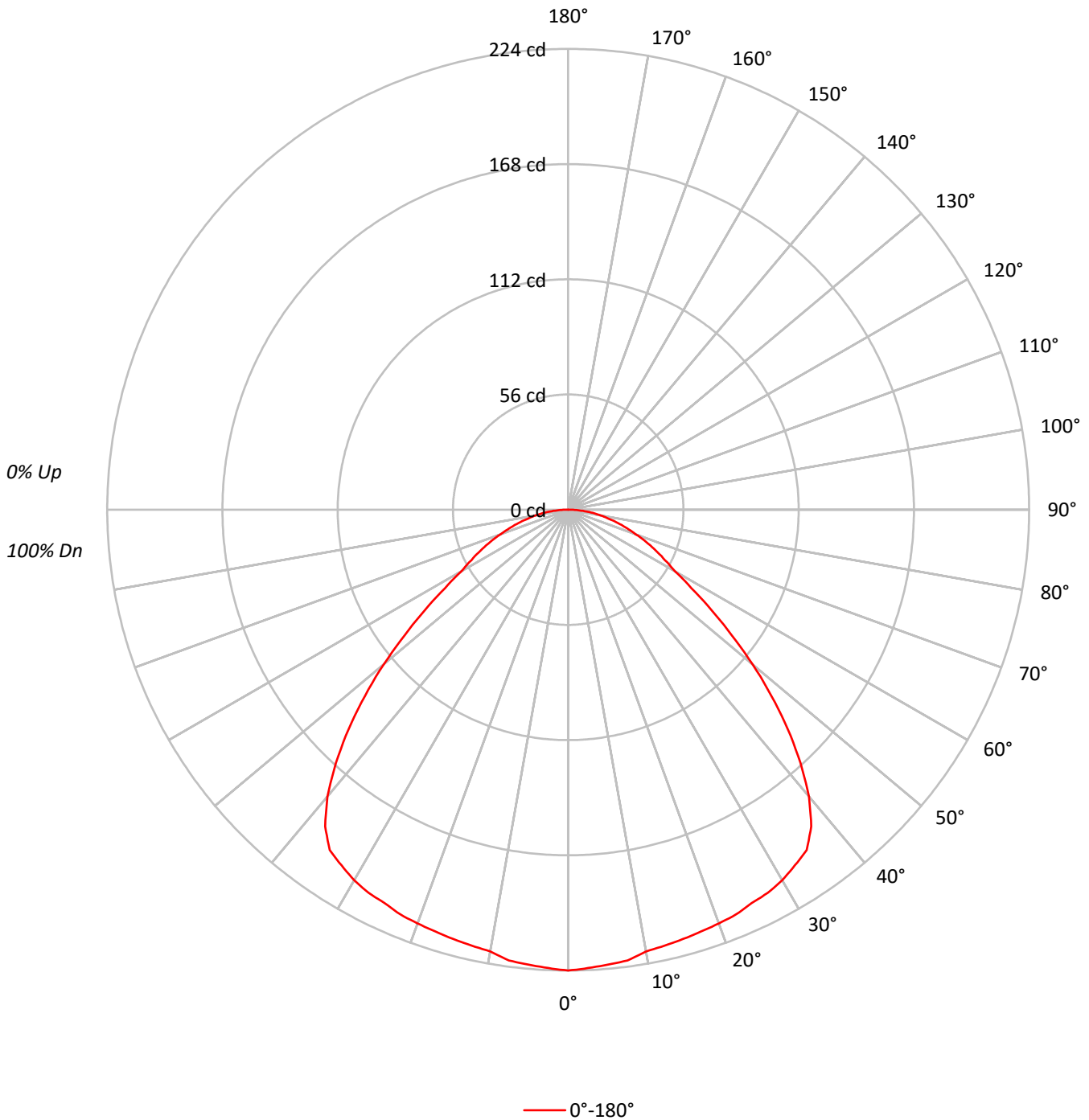
Test Method: LM-79-2019  
Report Number: G2-2210-802-29  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 01/04/23  
Issue Date: 01/04/23  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-403-FR-120-WHST-RHL-TFIN-DW-WH  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS 60W FROSTED BULB  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: INTEGRAL TO LAMP

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 579.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.39  
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<sub>in</sub>): 0.0681  
Voltage Rise (V): NR  
Power Factor: 0.951  
Total Harmonic Distortion (THDi): 24.0%  
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

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

	0°
0°	6907
5°	5959
10°	5216
15°	4694
20°	4289
25°	3952
30°	3683
35°	3416
40°	2967
45°	2394
50°	1819
55°	1306
60°	918
65°	721
70°	543
75°	395
80°	260
85°	135

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2394 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	3.6
10°-20°	61.2	10.6
20°-30°	97.7	16.9
30°-40°	124.7	21.5
40°-50°	115.8	20.0
50°-60°	76.8	13.3
60°-70°	46.6	8.1
70°-80°	26.5	4.6
80°-90°	8.7	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°	180.0	31.1
0°-40°	304.7	52.6
0°-60°	497.2	85.9
0°-90°	579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	224	
5°	222	21
15°	216	61
25°	211	98
35°	202	125
45°	151	116
55°	85	77
65°	47	47
75°	25	27
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	224
2.5°	223
5°	222
7.5°	221
10°	218
12.5°	217
15°	216
17.5°	215
20°	214
22.5°	213
25°	211
27.5°	210
30°	208
32.5°	205
35°	202
37.5°	194
40°	182
42.5°	167
45°	151
47.5°	134
50°	117
52.5°	100
55°	85
57.5°	71
60°	60
62.5°	53
65°	47
67.5°	41
70°	35
72.5°	30
75°	25
77.5°	20
80°	16
82.5°	12
85°	8
87.5°	4
90°	0

(END OF REPORT)