

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: G2-2210-802-38

Luminaire Tested: PRLX-403-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/4/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-38  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/4/2023  
Issue Date: 1/4/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-403-FIL-120-BKMT-RHL-TFIN-DB-BK  
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, BLACK (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**

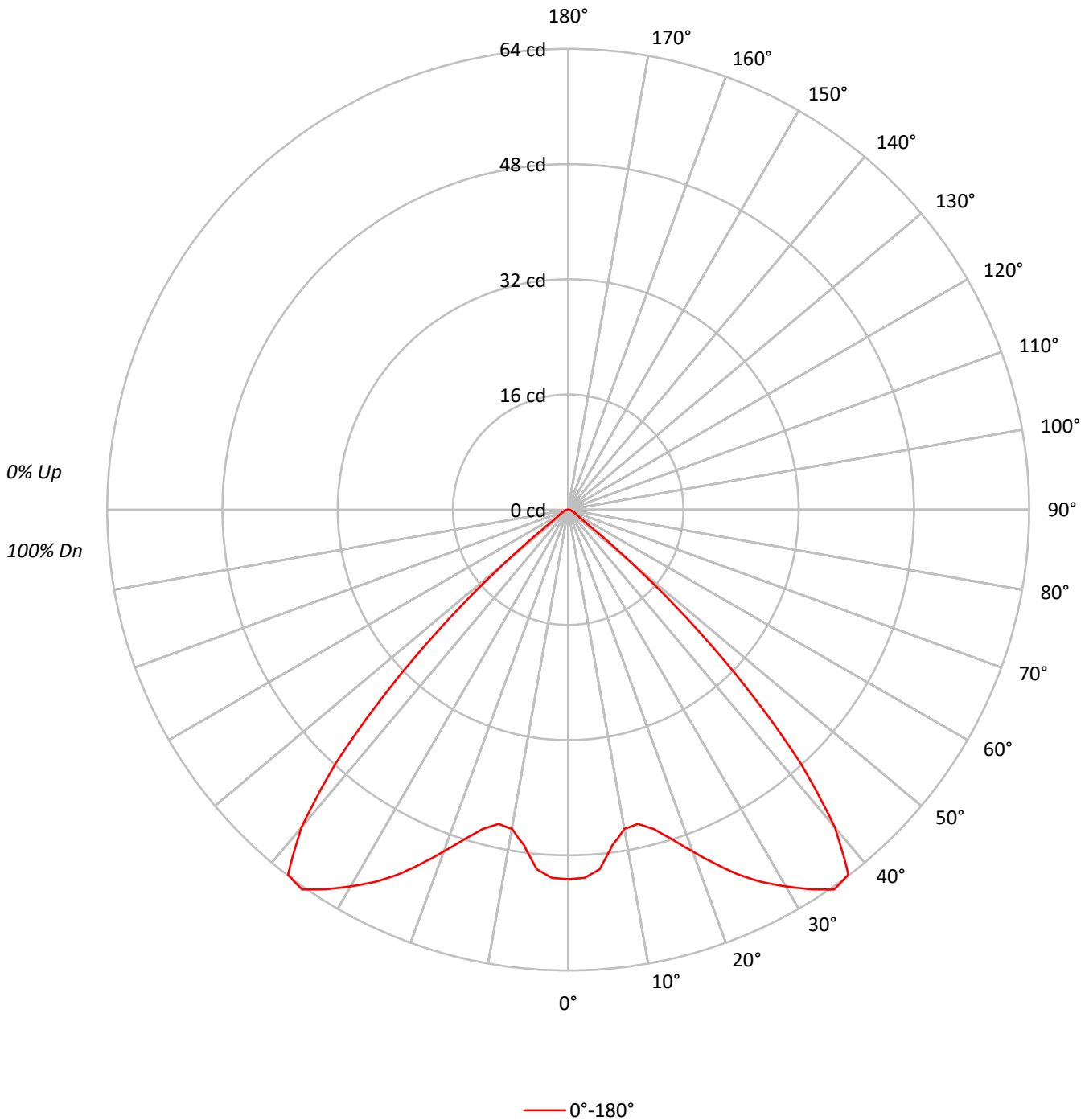
Lumens per Lamp: N/A  
Luminaire Lumens: 114.2 lumens  
Efficiency: N/A  
Efficacy: 14.6 lumens/watt  
Spacing Criteria (0/90/45): 1.68 / 1.68 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')  
CIE Type: Direct

Input Watts (W): 7.8  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0793  
Voltage Rise (V): NR  
Power Factor: 0.8156  
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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	77	75	73
4	91	82	75	70	89	81	74	69	78	73	68		76	71	68		74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58	53	49	47
8	69	57	50	45	68	57	50	45	55	49	44		54	48	44		53	48	44	42
9	65	53	45	41	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		45	40	36	35

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

	0°
0°	1582
5°	1345
10°	1077
15°	997
20°	1012
25°	1047
30°	1070
35°	1089
40°	939
45°	558
50°	176
55°	34
60°	20
65°	15
70°	9
75°	6
80°	3
85°	2

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 558 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.6	4.0
10°-20°	13.3	11.6
20°-30°	25.9	22.7
30°-40°	39.2	34.3
40°-50°	26.6	23.3
50°-60°	3.2	2.8
60°-70°	1.0	0.8
70°-80°	0.4	0.4
80°-90°	0.1	0.1
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°	43.8	38.3
0°-40°	83.0	72.7
0°-60°	112.7	98.7
0°-90°	114.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	114.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	51	
5°	50	5
15°	46	13
25°	56	26
35°	64	39
45°	35	27
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	51.3
2.5°	51.2
5°	50.1
7.5°	47.0
10°	45.0
12.5°	44.7
15°	45.9
17.5°	48.0
20°	50.5
22.5°	53.2
25°	55.9
27.5°	58.3
30°	60.4
32.5°	62.5
35°	64.4
37.5°	63.9
40°	57.6
42.5°	47.8
45°	35.2
47.5°	22.4
50°	11.3
52.5°	4.3
55°	2.2
57.5°	1.6
60°	1.3
62.5°	1.1
65°	1.0
67.5°	0.8
70°	0.6
72.5°	0.5
75°	0.4
77.5°	0.3
80°	0.2
82.5°	0.2
85°	0.1
87.5°	0.0
90°	0.0

(END OF REPORT)