

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: G2-2210-802-41

Luminaire Tested: PRLX-409-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/7/2023



**Test Information**

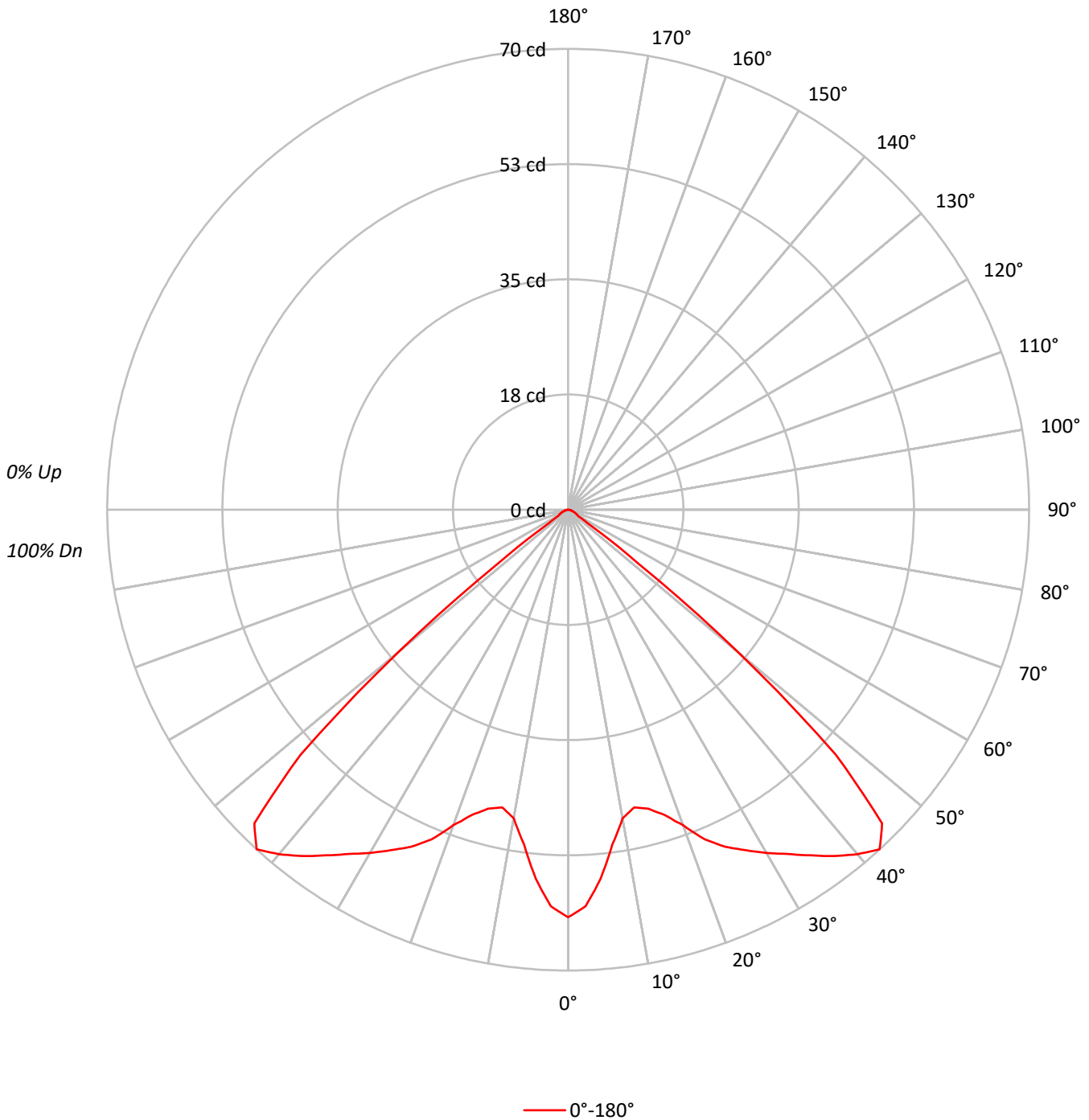
Test Method: LM-79-2019  
Report Number: G2-2210-802-41  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 1/7/2023  
Issue Date: 1/7/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-409-FIL-120-BKMT-RHL-TFIN-DB-BK  
Description: 400-SERIES 3D PRINTED LED 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: 141.9 lumens  
Efficiency: N/A  
Efficacy: 18.2 lumens/watt  
Spacing Criteria (0/90/45): 1.66 / 1.66 / 1.57  
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<sub>in</sub>): 0.0795  
Voltage Rise (V): NR  
Power Factor: 0.8152  
Total Harmonic Distortion (THDi): 70.6%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.9  
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	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	77	65	57	52	75	64	57	51	63	56	51		61	55	51		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	33	31

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

	0°
0°	623
5°	512
10°	397
15°	365
20°	373
25°	394
30°	403
35°	417
40°	434
45°	422
50°	210
55°	24
60°	10
65°	8
70°	5
75°	3
80°	2
85°	1

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 422 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.1	3.6
10°-20°	13.6	9.6
20°-30°	26.1	18.4
30°-40°	40.4	28.5
40°-50°	46.8	33.0
50°-60°	8.0	5.6
60°-70°	1.2	0.8
70°-80°	0.5	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°	44.8	31.6
0°-40°	85.2	60.1
0°-60°	140.0	98.7
0°-90°	141.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	141.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	62	
5°	56	5
15°	47	14
25°	56	26
35°	64	40
45°	67	47
55°	4	8
65°	1	1
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	61.9
2.5°	60.3
5°	56.3
7.5°	51.3
10°	47.6
12.5°	46.3
15°	47.0
17.5°	48.6
20°	51.0
22.5°	54.2
25°	56.5
27.5°	58.3
30°	60.2
32.5°	62.0
35°	64.1
37.5°	66.3
40°	68.3
42.5°	70.0
45°	67.4
47.5°	55.1
50°	33.7
52.5°	13.3
55°	3.9
57.5°	1.9
60°	1.6
62.5°	1.4
65°	1.2
67.5°	1.0
70°	0.8
72.5°	0.6
75°	0.5
77.5°	0.4
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)