

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: G2-2210-802-37

Luminaire Tested: PRLX-401-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/4/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: G2-2210-802-37  
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-401-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**

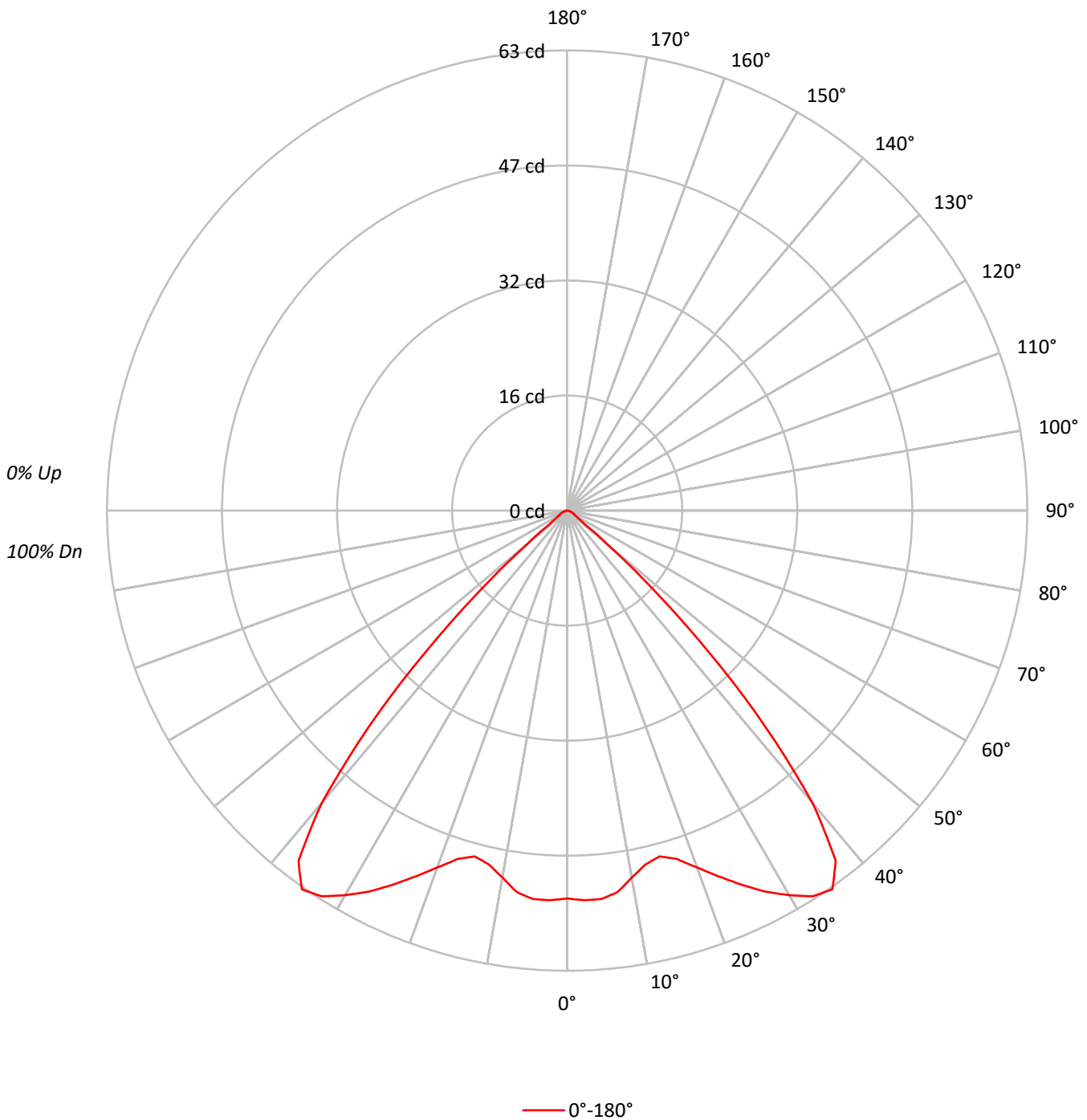
Lumens per Lamp: N/A  
Luminaire Lumens: 108.7 lumens  
Efficiency: N/A  
Efficacy: 13.9 lumens/watt  
Spacing Criteria (0/90/45): 1.61 / 1.61 / 1.34  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')  
CIE Type: Direct

Input Watts (W): 7.8  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.0793  
Voltage Rise (V): NR  
Power Factor: 0.8155  
Total Harmonic Distortion (THDi): 70.5%  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.0  
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	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88		91	88	86		89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		69	65	61	60
6	80	69	62	57	79	69	62	57	67	61	56		65	60	56		64	59	56	54
7	75	64	57	51	74	63	56	51	62	55	51		60	55	51		59	54	50	49
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

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

	0°
0°	1637
5°	1433
10°	1220
15°	1065
20°	1042
25°	1058
30°	1077
35°	1071
40°	853
45°	438
50°	109
55°	29
60°	18
65°	14
70°	9
75°	5
80°	3
85°	2

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 438 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	4.6
10°-20°	14.2	13.1
20°-30°	26.3	24.2
30°-40°	38.1	35.0
40°-50°	21.5	19.7
50°-60°	2.3	2.1
60°-70°	0.9	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°	45.5	41.8
0°-40°	83.5	76.8
0°-60°	107.3	98.7
0°-90°	108.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	108.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	53	
5°	53	5
15°	49	14
25°	56	26
35°	63	38
45°	28	21
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	53.1
2.5°	53.4
5°	53.4
7.5°	52.7
10°	51.0
12.5°	49.6
15°	49.0
17.5°	50.0
20°	52.0
22.5°	54.2
25°	56.5
27.5°	58.8
30°	60.8
32.5°	62.6
35°	63.3
37.5°	60.4
40°	52.3
42.5°	40.3
45°	27.6
47.5°	15.8
50°	7.0
52.5°	3.1
55°	1.9
57.5°	1.5
60°	1.2
62.5°	1.1
65°	0.9
67.5°	0.8
70°	0.6
72.5°	0.5
75°	0.3
77.5°	0.3
80°	0.2
82.5°	0.1
85°	0.1
87.5°	0.1
90°	0.0

(END OF REPORT)