

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: G2-2210-802-40

Luminaire Tested: PRLX-407-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/6/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-40
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/6/2023
Issue Date: 1/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-407-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

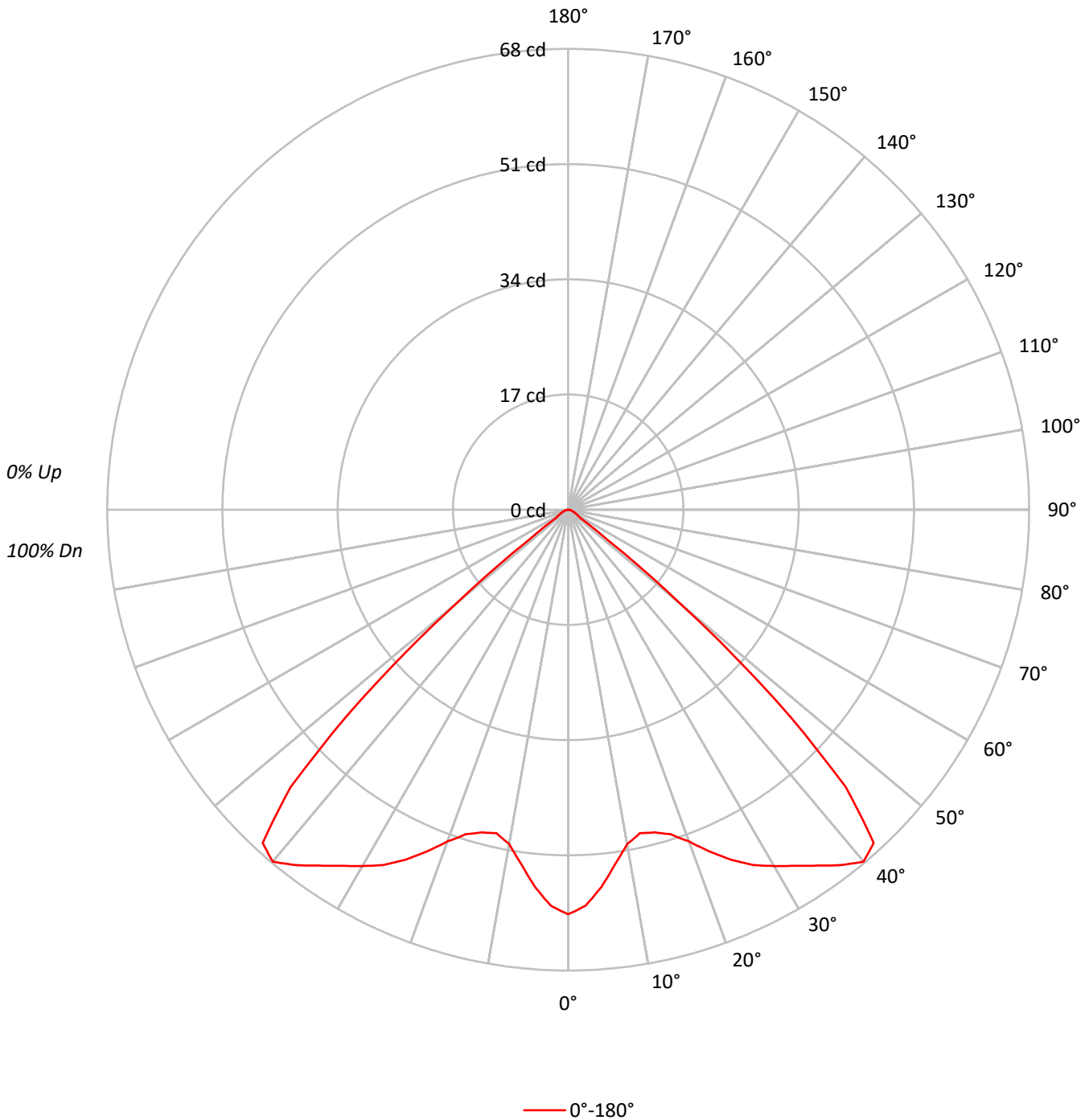
Lumens per Lamp: N/A
Luminaire Lumens: 133.4 lumens
Efficiency: N/A
Efficacy: 17.1 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 1.7 / 1.5
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
Voltage Rise (V): NR
Power Factor: 0.9528
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.4
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	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	87	82	77	85	80	76		82	78	74		80	76	73	71
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73	69	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	72	61	53	47	71	60	52	47	58	52	47		57	51	47		56	50	46	45
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51	46	42	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	601
5°	508
10°	418
15°	383
20°	381
25°	397
30°	407
35°	417
40°	431
45°	363
50°	136
55°	16
60°	10
65°	7
70°	5
75°	3
80°	2
85°	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	3.9
10°-20°	14.2	10.6
20°-30°	26.4	19.8
30°-40°	40.4	30.3
40°-50°	40.3	30.2
50°-60°	5.2	3.9
60°-70°	1.1	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°	45.7	34.3
0°-40°	86.1	64.6
0°-60°	131.6	98.7
0°-90°	133.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	133.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	60	
5°	56	5
15°	49	14
25°	57	26
35°	64	40
45°	58	40
55°	3	5
65°	1	1
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	59.7
2.5°	58.5
5°	55.9
7.5°	52.8
10°	50.1
12.5°	48.9
15°	49.3
17.5°	50.2
20°	52.1
22.5°	54.6
25°	57.0
27.5°	59.1
30°	60.7
32.5°	62.3
35°	64.1
37.5°	66.1
40°	67.8
42.5°	66.7
45°	57.9
47.5°	41.4
50°	21.8
52.5°	7.6
55°	2.6
57.5°	1.8
60°	1.6
62.5°	1.3
65°	1.1
67.5°	0.9
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°	0.0
90°	0.0

(END OF REPORT)