

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: G2-2210-802-45

Luminaire Tested: PRLX-417-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/10/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-45
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/10/2023
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-417-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

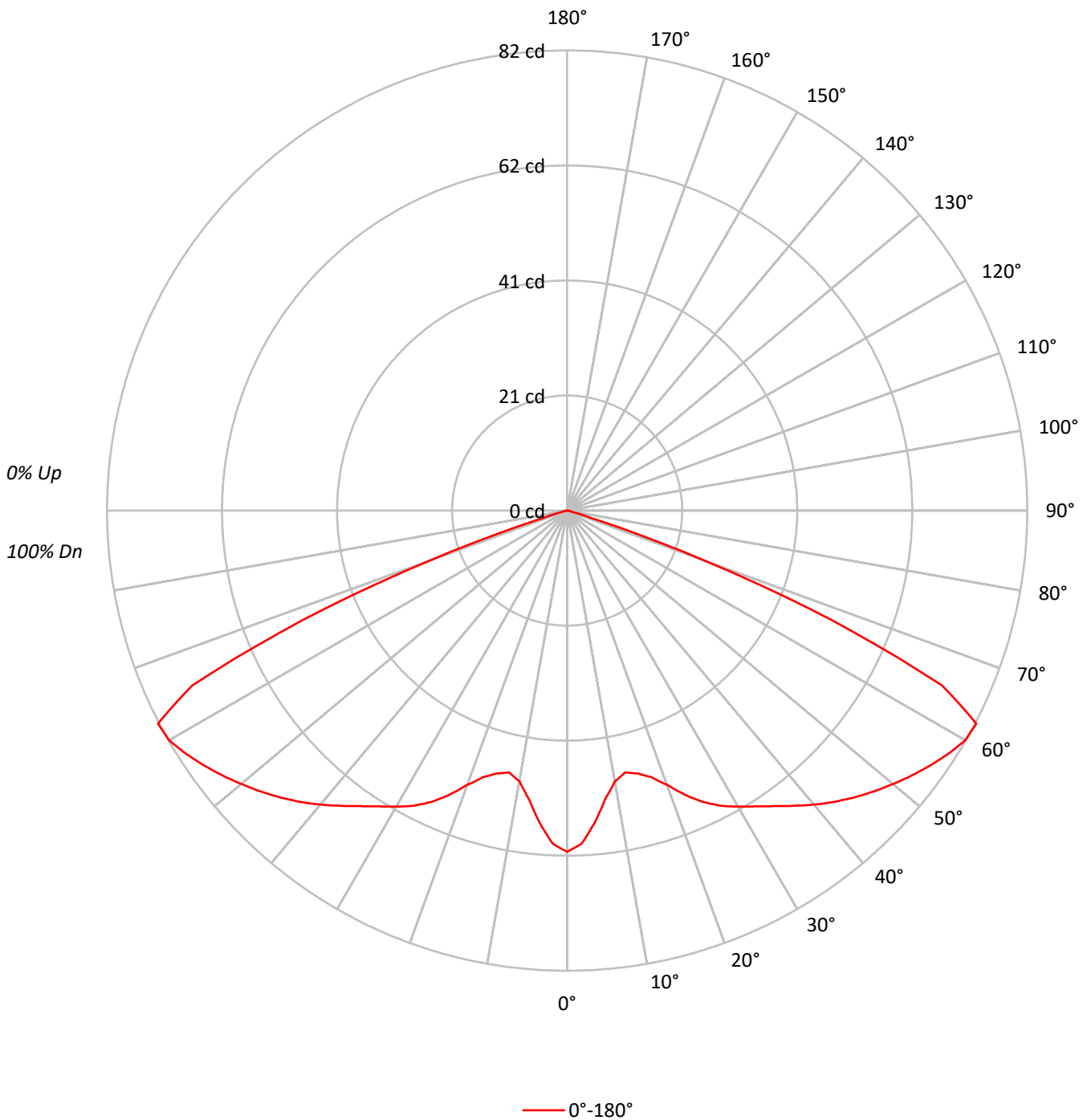
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 283.0 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 1.7 / 2
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0795
Voltage Rise (V): NR
Power Factor: 0.8149
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.5
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	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66	61	57	55
4	79	66	56	49	77	65	56	49	62	54	48		60	53	47		57	52	47	44
5	72	58	48	41	69	56	47	40	54	46	40		52	45	39		50	44	39	37
6	65	51	41	34	63	50	40	34	48	40	33		46	39	33		44	38	33	30
7	60	45	36	29	58	44	35	29	43	34	28		41	34	28		40	33	28	26
8	55	41	31	25	54	40	31	25	38	30	25		37	30	24		36	29	24	22
9	51	37	28	22	50	36	28	22	35	27	22		34	27	21		33	26	21	19
10	48	33	25	19	46	33	25	19	32	24	19		31	24	19		30	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332
5°	290
10°	243
15°	233
20°	243
25°	263
30°	277
35°	292
40°	312
45°	335
50°	358
55°	385
60°	414
65°	391
70°	147
75°	5
80°	3
85°	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	1.8
10°-20°	14.0	4.9
20°-30°	26.5	9.4
30°-40°	40.6	14.3
40°-50°	56.0	19.8
50°-60°	70.9	25.1
60°-70°	64.4	22.8
70°-80°	5.3	1.9
80°-90°	0.2	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°	45.6	16.1
0°-40°	86.1	30.4
0°-60°	213.1	75.3
0°-90°	283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	283.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	61	
5°	56	5
15°	48	14
25°	57	26
35°	64	41
45°	72	56
55°	79	71
65°	74	64
75°	1	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	60.8
2.5°	59.4
5°	55.9
7.5°	51.9
10°	49.0
12.5°	47.8
15°	48.5
17.5°	49.8
20°	52.0
22.5°	54.8
25°	57.3
27.5°	59.3
30°	60.9
32.5°	62.5
35°	64.3
37.5°	66.3
40°	68.4
42.5°	70.4
45°	72.3
47.5°	74.1
50°	75.8
52.5°	77.5
55°	79.1
57.5°	80.6
60°	81.9
62.5°	82.2
65°	73.7
67.5°	51.1
70°	26.1
72.5°	5.4
75°	0.9
77.5°	0.7
80°	0.5
82.5°	0.3
85°	0.2
87.5°	0.1
90°	0.0

(END OF REPORT)