

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: G2-2210-802-44

Luminaire Tested: PRLX-415-FIL-120-BKMT-RHL-TFIN-DB-BK

Test Date: 01/10/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-44
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/10/23
Issue Date: 01/10/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-415-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

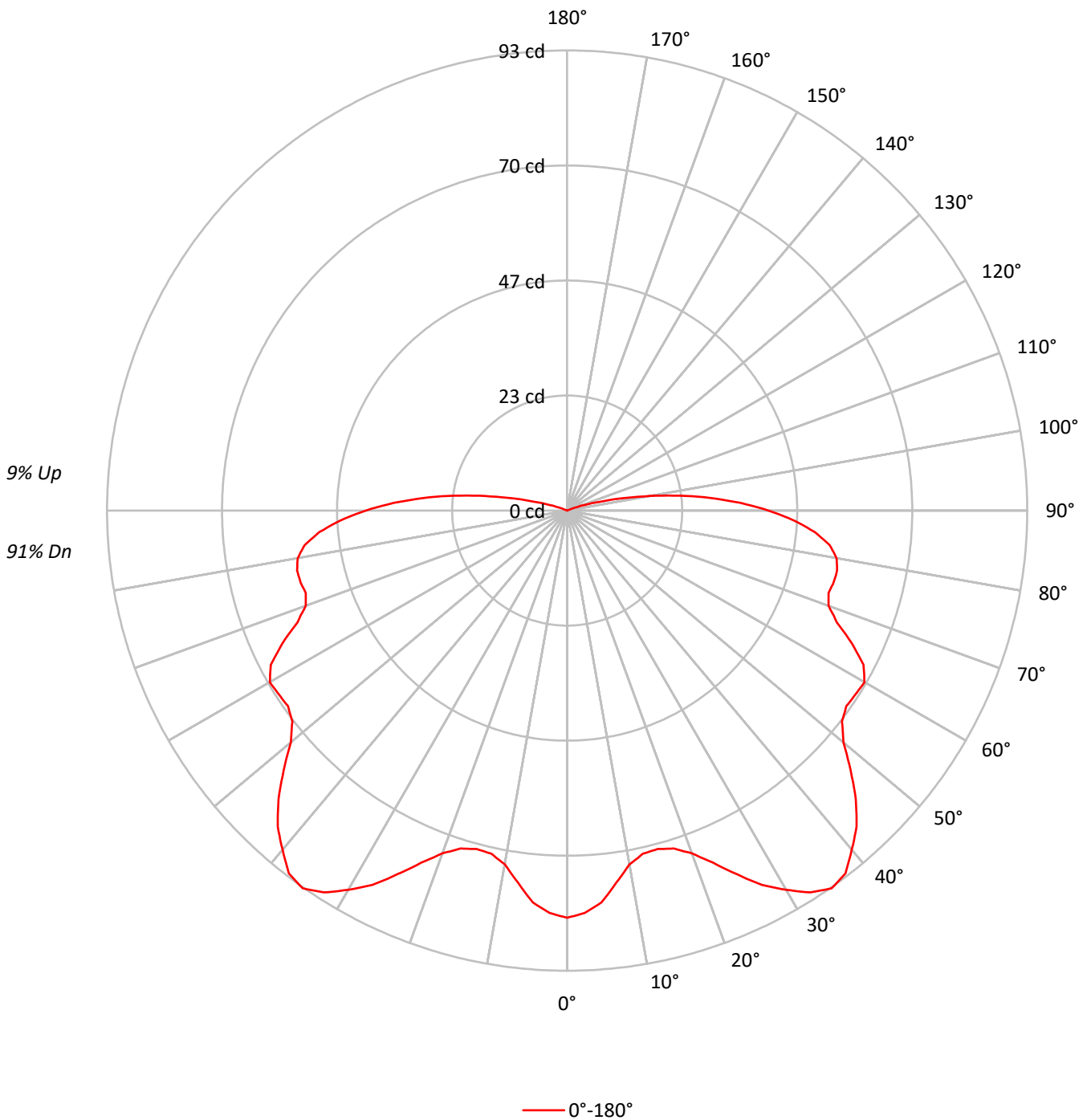
Lumens per Lamp: N/A
Luminaire Lumens: 465.0 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 1.65 / 1.65 / 1.64
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0795
Voltage Rise (V): NR
Power Factor: 0.8148
Total Harmonic Distortion (THDi): 70.7%
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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94	94	94	91
1	101	95	88	83	98	91	86	80	85	81	76		80	76	72		74	71	69	65
2	90	80	71	63	87	77	69	62	72	65	59		67	61	56		62	58	54	51
3	81	68	58	50	78	66	57	49	62	54	47		57	51	45		54	48	43	40
4	74	60	49	41	70	58	48	41	54	45	39		50	43	37		47	41	36	33
5	67	52	42	35	64	51	41	34	48	39	33		45	37	32		42	35	30	28
6	62	47	37	30	59	45	36	29	42	34	28		40	33	27		37	31	26	24
7	57	42	32	26	55	41	32	25	38	30	24		36	29	24		34	28	23	20
8	53	38	29	22	51	37	28	22	35	27	21		33	26	21		31	25	20	18
9	49	35	26	20	47	34	25	19	32	24	19		30	23	18		28	22	18	16
10	46	32	23	18	44	31	23	17	29	22	17		28	21	16		26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	450
5°	412
10°	360
15°	340
20°	345
25°	373
30°	403
35°	423
40°	409
45°	382
50°	345
55°	336
60°	351
65°	337
70°	316
75°	337
80°	363
85°	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	1.6
10°-20°	20.3	4.4
20°-30°	37.8	8.1
30°-40°	57.5	12.4
40°-50°	63.3	13.6
50°-60°	62.6	13.5
60°-70°	62.6	13.5
70°-80°	58.9	12.7
80°-90°	53.9	11.6
90°-100°	31.7	6.8
100°-110°	8.5	1.8
110°-120°	0.4	0.1
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°	65.4	14.1
0°-40°	122.9	26.4
0°-60°	248.9	53.5
0°-90°	424.3	91.3
90°-120°	40.6	8.7
90°-150°	40.6	8.7
90°-180°	41.0	8.8
0°-180°	465.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	82	
5°	80	7
15°	71	20
25°	81	38
35°	93	58
45°	82	63
55°	69	63
65°	64	63
75°	56	59
85°	50	42
90°	41	22
95°	29	21
105°	7	9
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	82.3
2.5°	81.4
5°	79.5
7.5°	75.9
10°	72.6
12.5°	71.0
15°	70.8
17.5°	71.6
20°	73.7
22.5°	77.0
25°	81.1
27.5°	85.3
30°	88.5
32.5°	91.5
35°	93.2
37.5°	92.4
40°	89.5
42.5°	86.6
45°	82.5
47.5°	77.7
50°	72.9
52.5°	70.0
55°	68.9
57.5°	69.1
60°	69.4
62.5°	67.5
65°	63.5
67.5°	59.0
70°	56.2
72.5°	55.4
75°	55.8
77.5°	55.9
80°	55.3
82.5°	53.5
85°	50.3
87.5°	45.9
90°	40.7
92.5°	35.1
95°	29.1
97.5°	23.0
100°	16.9
102.5°	11.4
105°	7.1
107.5°	4.0
110°	2.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.7
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)