

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: G2-2210-802-1

Luminaire Tested: PRLX-401-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 12/6/2022



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-1
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 12/6/2022
Issue Date: 12/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-401-FIL-120-CL-RHL-TFWHST-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) SHADE, FILAMENT LAMP
Light Source: PHILIPS
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP
1 PHILIPS 60W CLEAR BULB

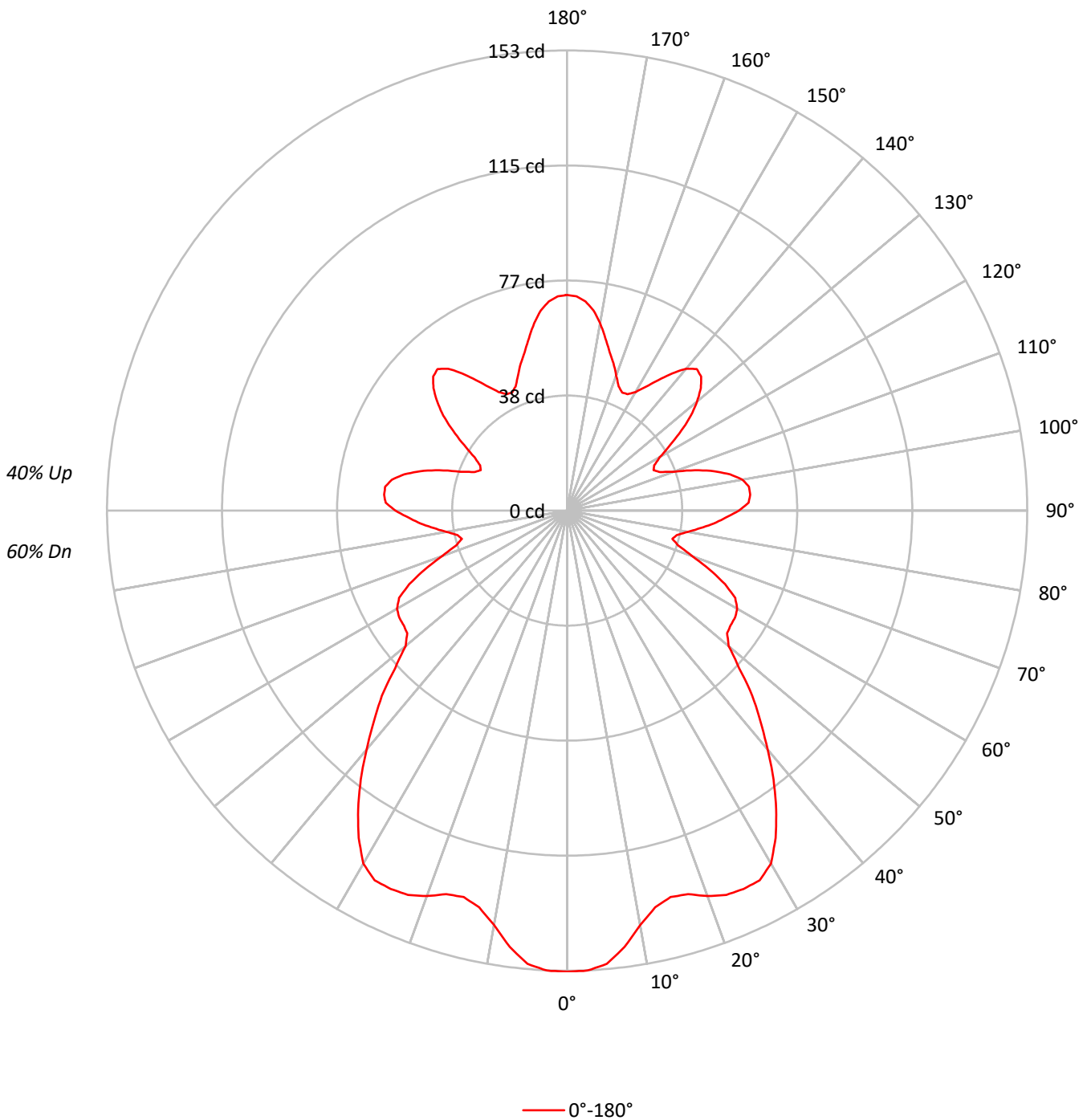
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 785.2 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.29
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: General Diffuse

Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0791
Voltage Rise (V): NR
Power Factor: 0.8157
Total Harmonic Distortion (THDi): 70.5%
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	98	92	87	83	91	86	82	78	74	71	68	64	61	59	54	52	50	45
2	88	80	73	67	82	74	68	63	64	59	55	55	51	48	46	44	41	37
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	38	35	31
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	37	33	30	26
5	67	55	46	40	62	51	44	38	45	38	34	39	34	30	33	29	26	23
6	62	49	41	34	58	46	38	33	40	34	29	35	30	26	30	26	23	20
7	58	45	36	30	53	42	34	29	37	30	26	32	27	23	27	23	20	18
8	53	40	32	27	50	38	31	25	33	27	23	29	24	20	25	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	23	19	16	14
10	47	34	26	21	43	32	25	20	28	23	19	25	20	17	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4727
5°	4061
10°	3347
15°	2890
20°	2734
25°	2600
30°	2399
35°	2050
40°	1691
45°	1381
50°	1090
55°	1020
60°	999
65°	889
70°	686
75°	572
80°	661
85°	825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1381 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	1.8
10°-20°	38.2	4.9
20°-30°	63.8	8.1
30°-40°	75.4	9.6
40°-50°	66.8	8.5
50°-60°	59.9	7.6
60°-70°	56.2	7.2
70°-80°	40.9	5.2
80°-90°	53.3	6.8
90°-100°	65.6	8.4
100°-110°	52.8	6.7
110°-120°	33.4	4.2
120°-130°	41.3	5.3
130°-140°	47.6	6.1
140°-150°	33.6	4.3
150°-160°	20.6	2.6
160°-170°	15.4	2.0
170°-180°	6.5	0.8
0°-30°	116.1	14.8
0°-40°	191.5	24.4
0°-60°	318.2	40.5
0°-90°	468.6	59.7
90°-120°	151.8	19.3
90°-150°	274.3	34.9
90°-180°	317.0	40.4
0°-180°	785.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	153	
5°	151	14
15°	133	38
25°	139	64
35°	121	75
45°	87	67
55°	66	60
65°	58	56
75°	36	41
85°	49	38
90°	57	31
95°	61	50
105°	51	53
115°	32	33
125°	46	41
135°	63	48
145°	53	34
155°	43	21
165°	54	15
175°	70	6
180°	72	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	153.3
2.5°	153.1
5°	151.3
7.5°	146.3
10°	139.9
12.5°	135.1
15°	133.0
17.5°	133.7
20°	136.4
22.5°	138.3
25°	138.8
27.5°	138.6
30°	135.5
32.5°	129.0
35°	121.2
37.5°	112.7
40°	103.7
42.5°	95.1
45°	87.1
47.5°	77.6
50°	70.1
52.5°	67.0
55°	66.4
57.5°	66.2
60°	65.3
62.5°	63.0
65°	57.9
67.5°	51.2
70°	44.2
72.5°	38.7
75°	36.2
77.5°	37.4
80°	40.7
82.5°	44.7
85°	49.0
87.5°	52.8
90°	57.1
92.5°	60.4
95°	61.1
97.5°	61.0
100°	59.2
102.5°	55.5
105°	50.6
107.5°	44.6
110°	37.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	33.4
115°	31.7
117.5°	32.6
120°	35.6
122.5°	40.6
125°	46.4
127.5°	51.9
130°	56.4
132.5°	60.3
135°	63.0
137.5°	63.8
140°	61.6
142.5°	57.5
145°	53.0
147.5°	48.8
150°	45.5
152.5°	43.6
155°	43.3
157.5°	44.7
160°	47.7
162.5°	51.3
165°	54.5
167.5°	58.7
170°	63.2
172.5°	67.1
175°	69.8
177.5°	71.3
180°	71.7

(END OF REPORT)