

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: G2-2210-802-24

Luminaire Tested: PRLX-411-FIL-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/7/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-24
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/7/2023
Issue Date: 1/7/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-411-FIL-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (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

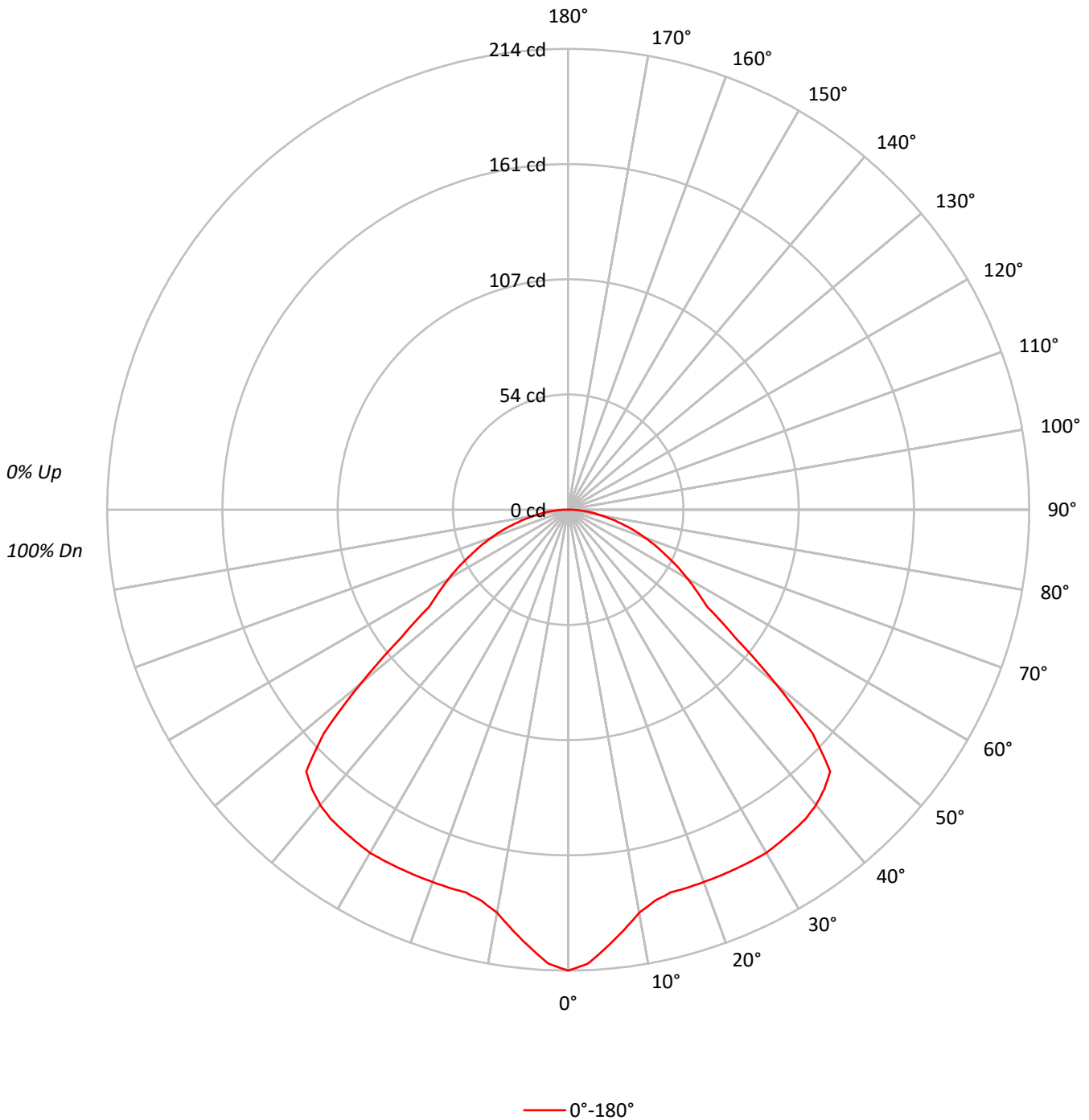
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560.1 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.48
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 (A_{in}): 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): 24.8
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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2155
5°	1855
10°	1586
15°	1430
20°	1347
25°	1283
30°	1233
35°	1183
40°	1138
45°	1077
50°	784
55°	492
60°	402
65°	319
70°	249
75°	176
80°	113
85°	59

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1077 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	3.4
10°-20°	52.4	9.4
20°-30°	85.2	15.2
30°-40°	114.2	20.4
40°-50°	126.2	22.5
50°-60°	76.4	13.6
60°-70°	50.0	8.9
70°-80°	27.9	5.0
80°-90°	8.7	1.6
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°	156.6	28.0
0°-40°	270.8	48.4
0°-60°	473.5	84.5
0°-90°	560.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	214	
5°	204	19
15°	184	52
25°	184	85
35°	182	114
45°	172	126
55°	79	76
65°	50	50
75°	26	28
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	214
2.5°	211
5°	204
7.5°	197
10°	190
12.5°	186
15°	184
17.5°	184
20°	184
22.5°	184
25°	184
27.5°	184
30°	184
32.5°	183
35°	182
37.5°	181
40°	179
42.5°	176
45°	172
47.5°	154
50°	126
52.5°	98
55°	79
57.5°	71
60°	64
62.5°	57
65°	50
67.5°	44
70°	38
72.5°	32
75°	26
77.5°	21
80°	16
82.5°	12
85°	8
87.5°	4
90°	0

(END OF REPORT)