

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: G2-2210-802-31

Luminaire Tested: PRLX-407-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/5/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-31
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/5/2023
Issue Date: 1/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-407-FR-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FROSTED LAMP
Light Source: 1 PHILIPS 60W FROSTED BULB
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

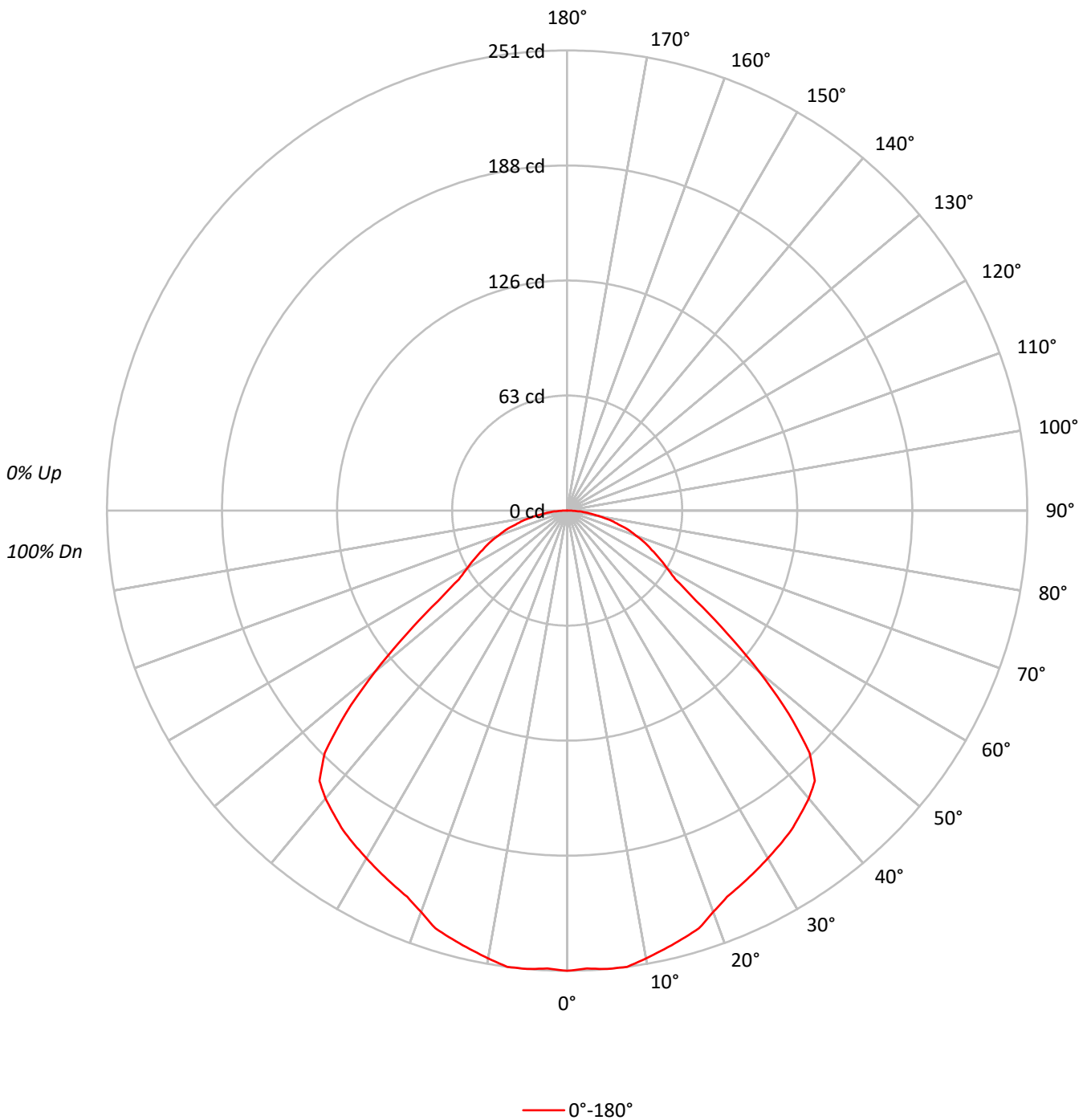
Lumens per Lamp: N/A
Luminaire Lumens: 641.3 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0687
Voltage Rise (V): NR
Power Factor: 0.9528
Total Harmonic Distortion (THDi): 23.4%
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	29	41	34	29	40	34	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2527
5°	2283
10°	2071
15°	1881
20°	1706
25°	1568
30°	1467
35°	1384
40°	1303
45°	1171
50°	852
55°	536
60°	396
65°	326
70°	262
75°	196
80°	127
85°	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1171 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	3.7
10°-20°	68.3	10.6
20°-30°	104.1	16.2
30°-40°	133.3	20.8
40°-50°	139.1	21.7
50°-60°	81.4	12.7
60°-70°	50.9	7.9
70°-80°	30.9	4.8
80°-90°	9.5	1.5
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°	196.3	30.6
0°-40°	329.6	51.4
0°-60°	550.1	85.8
0°-90°	641.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	251	
5°	251	24
15°	242	68
25°	225	104
35°	213	133
45°	187	139
55°	86	81
65°	51	51
75°	29	31
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	251
2.5°	250
5°	251
7.5°	251
10°	248
12.5°	245
15°	242
17.5°	239
20°	233
22.5°	228
25°	225
27.5°	222
30°	219
32.5°	216
35°	213
37.5°	209
40°	205
42.5°	200
45°	187
47.5°	164
50°	137
52.5°	110
55°	86
57.5°	70
60°	63
62.5°	57
65°	51
67.5°	46
70°	40
72.5°	35
75°	29
77.5°	24
80°	18
82.5°	13
85°	9
87.5°	4
90°	0

(END OF REPORT)