

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: G2-2210-802-30

Luminaire Tested: PRLX-405-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 01/04/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-30
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/04/23
Issue Date: 01/04/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-405-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

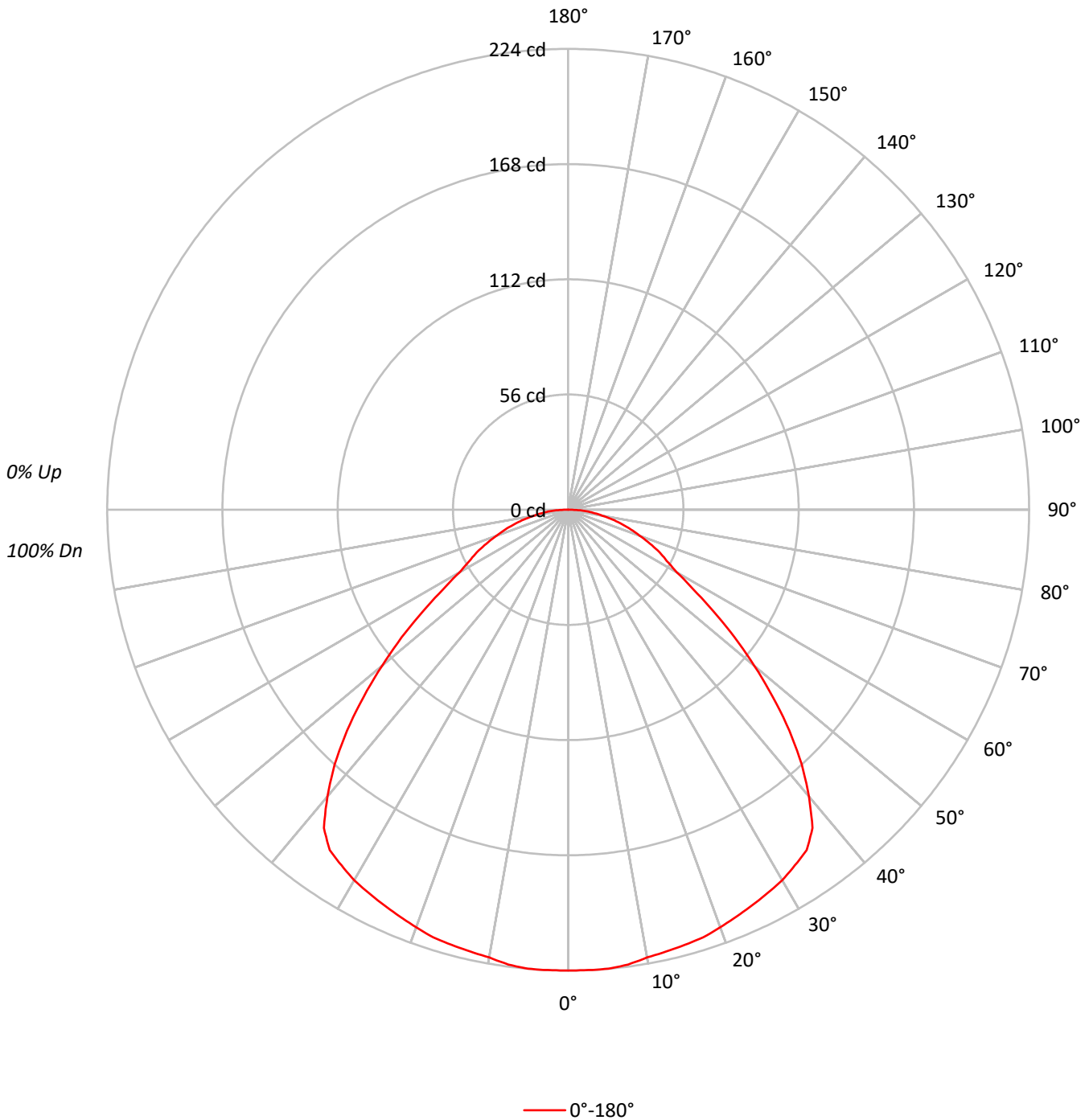
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 586.9 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0684
Voltage Rise (V): NR
Power Factor: 0.9519
Total Harmonic Distortion (THDi): 23.7%
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86				86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6907
5°	6013
10°	5288
15°	4759
20°	4329
25°	3971
30°	3683
35°	3416
40°	2967
45°	2410
50°	1834
55°	1321
60°	933
65°	752
70°	574
75°	427
80°	276
85°	152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2410 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	3.6
10°-20°	62.0	10.6
20°-30°	98.0	16.7
30°-40°	124.9	21.3
40°-50°	116.5	19.8
50°-60°	77.9	13.3
60°-70°	48.2	8.2
70°-80°	28.5	4.9
80°-90°	9.7	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°	181.3	30.9
0°-40°	306.2	52.2
0°-60°	500.5	85.3
0°-90°	586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	224	
5°	224	21
15°	219	62
25°	212	98
35°	202	125
45°	152	116
55°	86	78
65°	49	48
75°	27	28
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	224
2.5°	224
5°	224
7.5°	223
10°	221
12.5°	220
15°	219
17.5°	218
20°	216
22.5°	214
25°	212
27.5°	210
30°	208
32.5°	205
35°	202
37.5°	195
40°	182
42.5°	168
45°	152
47.5°	135
50°	118
52.5°	102
55°	86
57.5°	72
60°	61
62.5°	54
65°	49
67.5°	43
70°	37
72.5°	32
75°	27
77.5°	22
80°	17
82.5°	13
85°	9
87.5°	5
90°	0

(END OF REPORT)